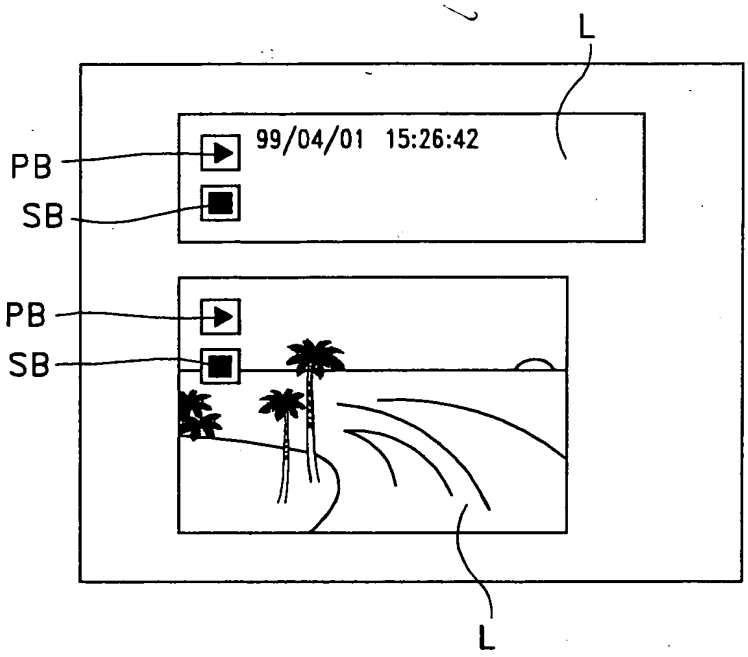


FIG.1

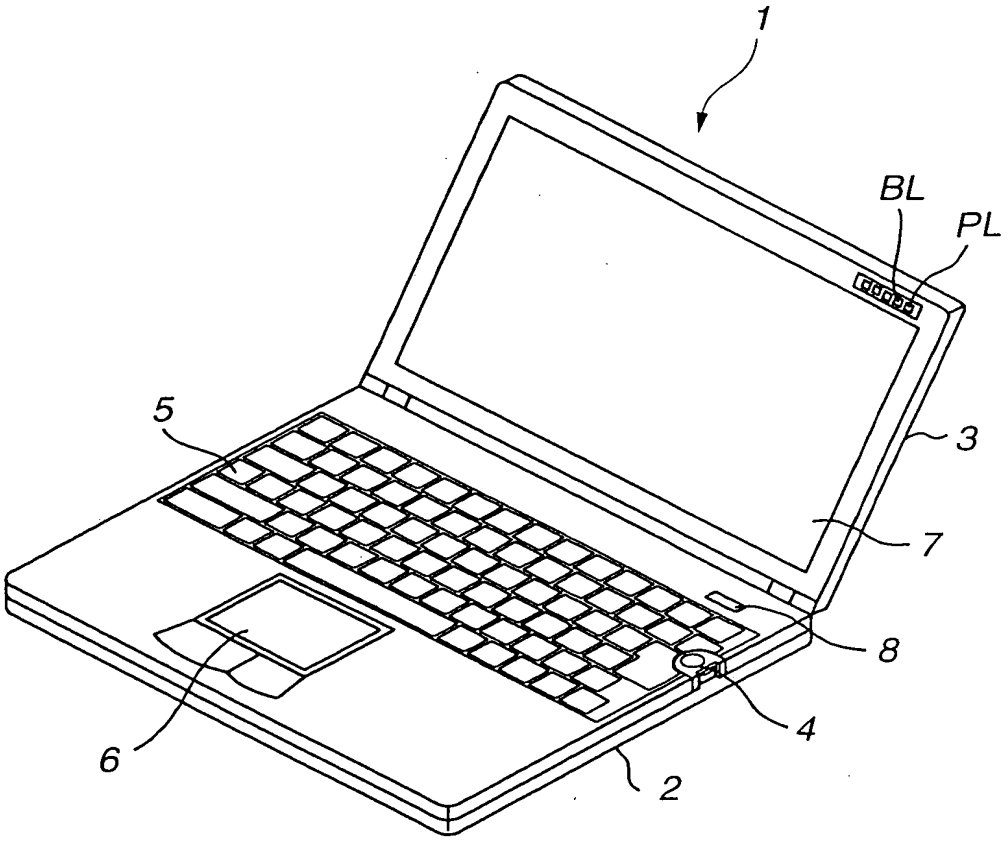


FIG.2

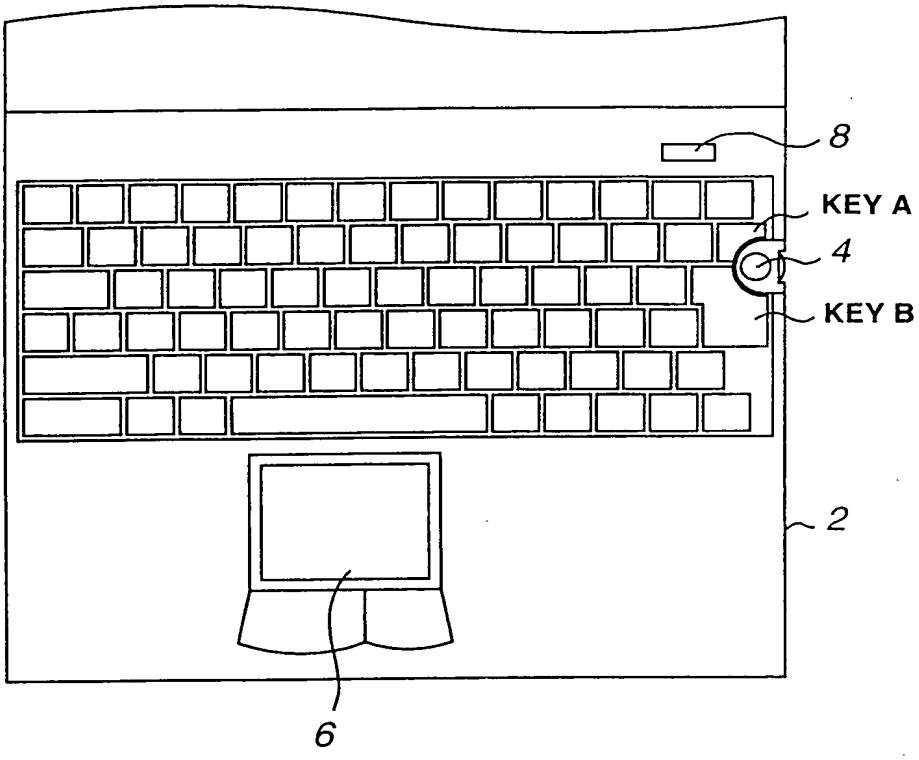


FIG.3

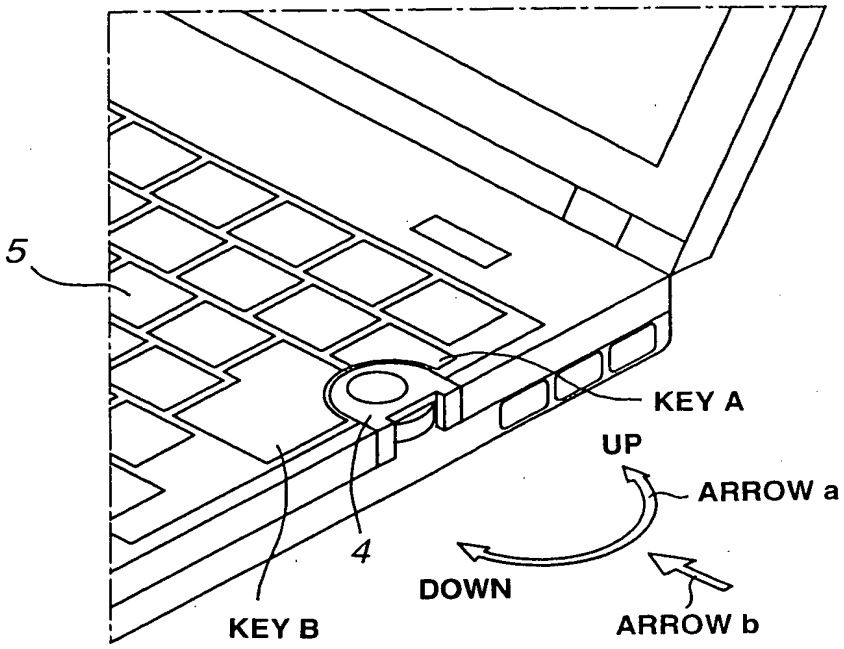


FIG.4

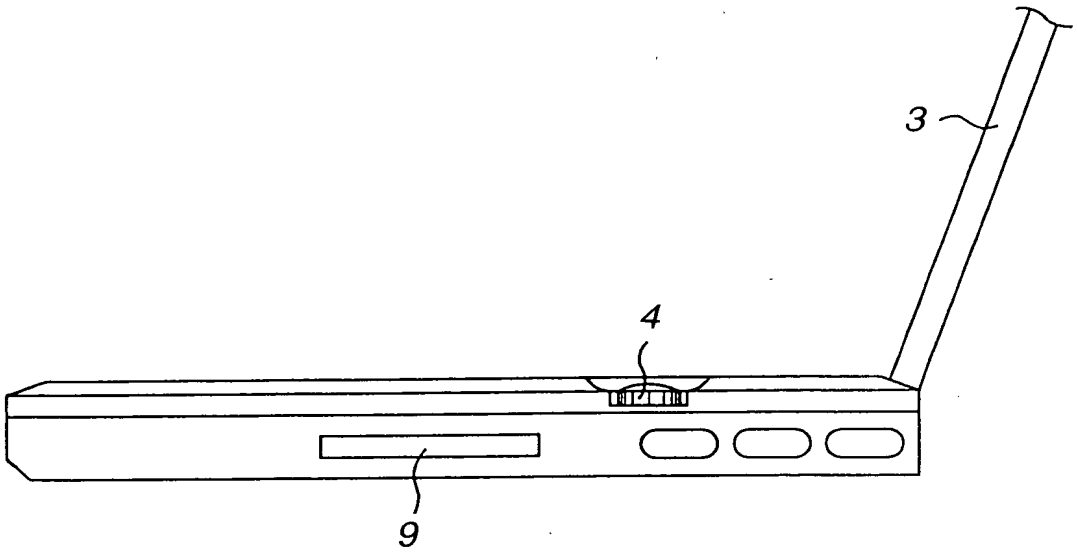


FIG.5

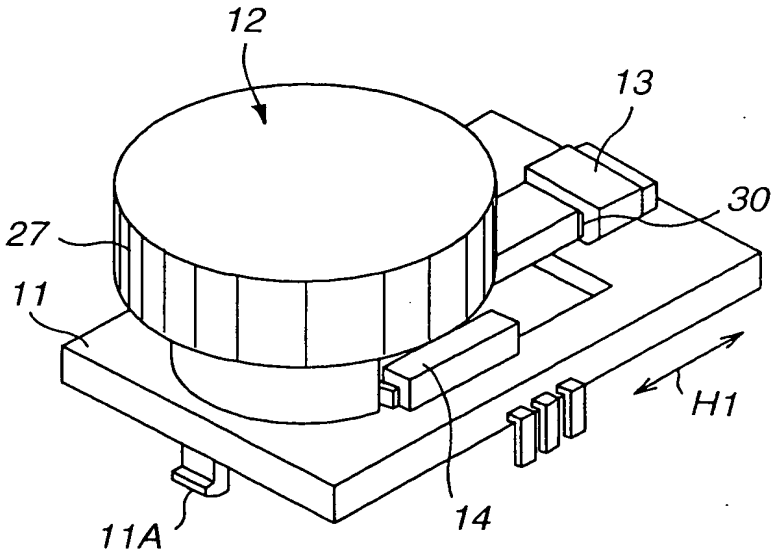


FIG.6

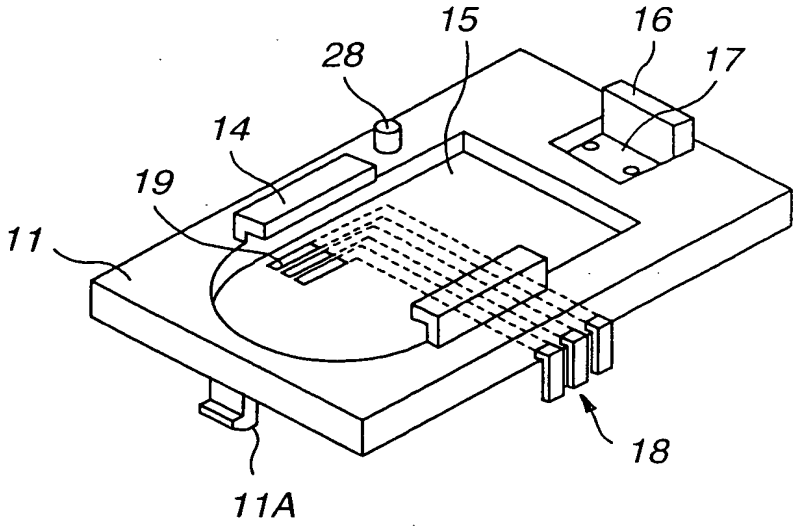


FIG.7

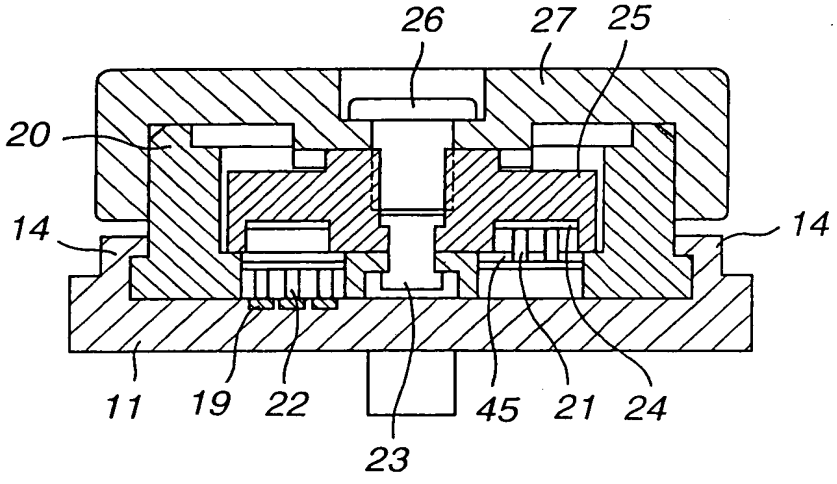


FIG.8

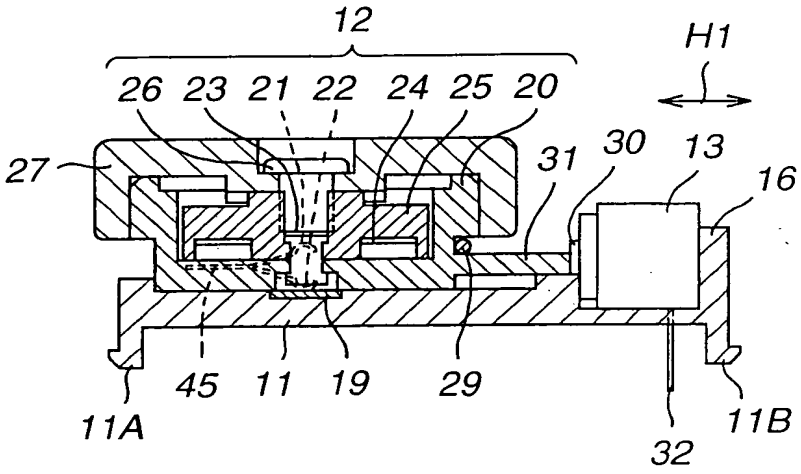

12
H1
26
23
21
22
24
25
20
27
31
30
13
16
45
11
19
29
11A
32
11B

FIG.9

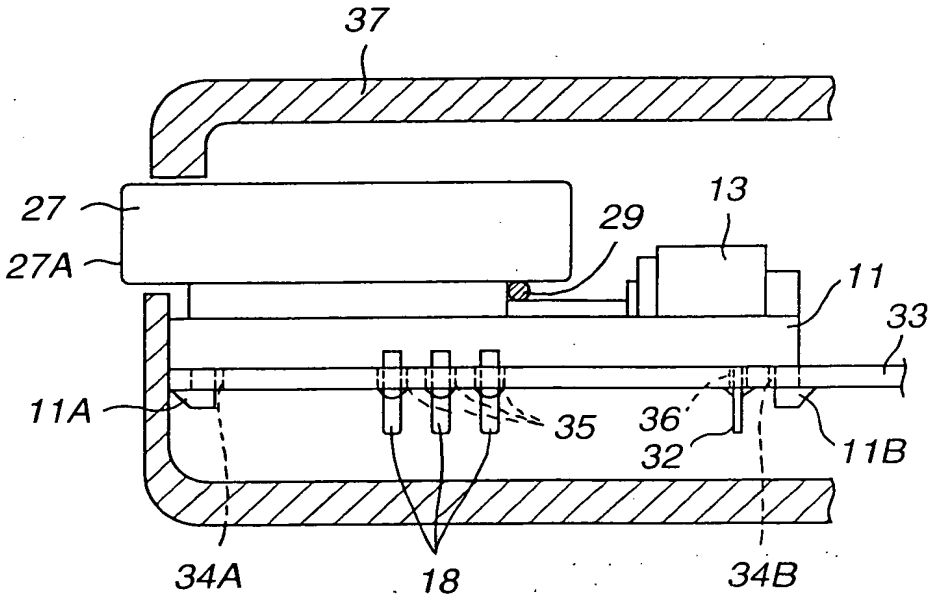

37
27
27A
29
13
11
33
11A
35
36
32
11B
34A
18
34B

FIG.10

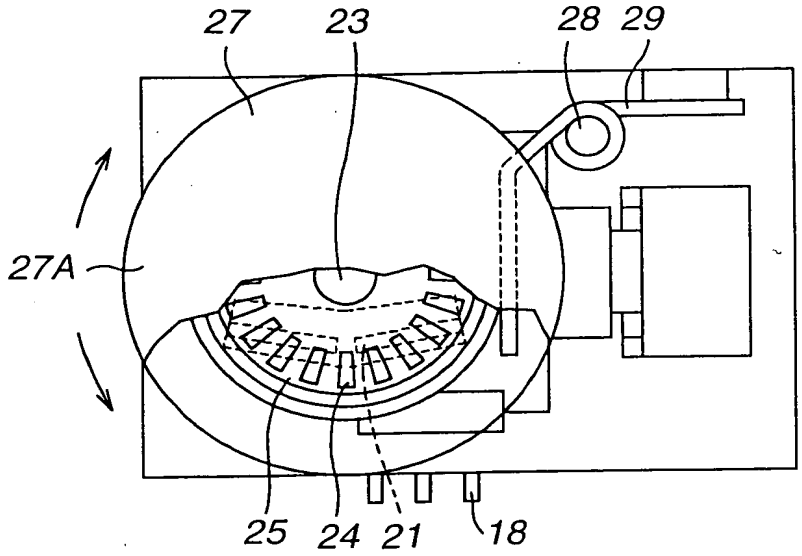


FIG.11

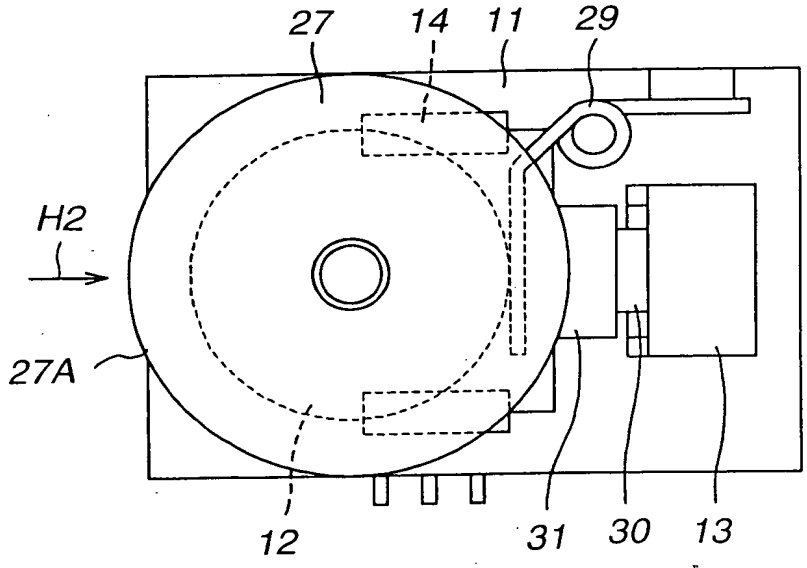


FIG.12

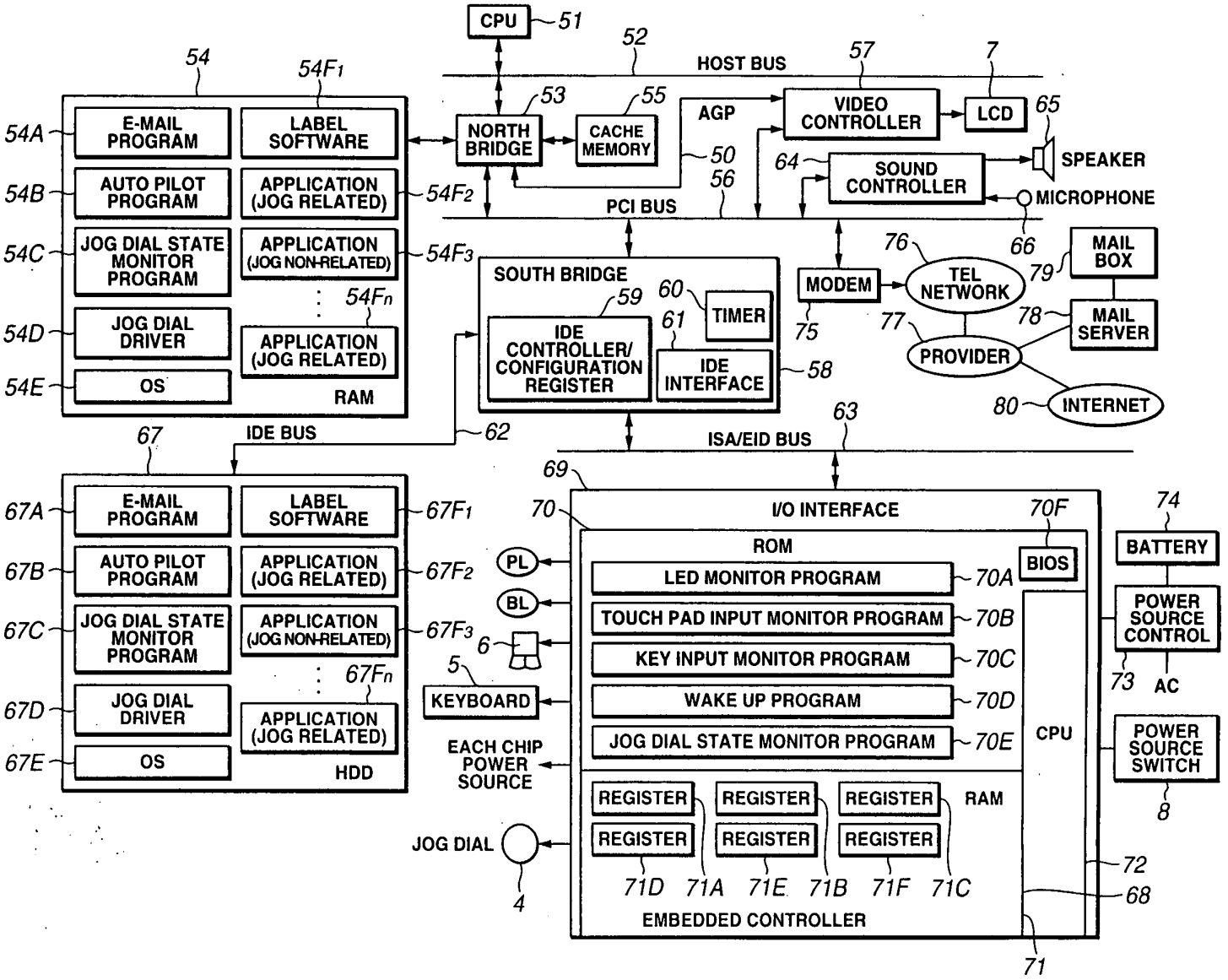


FIG.13

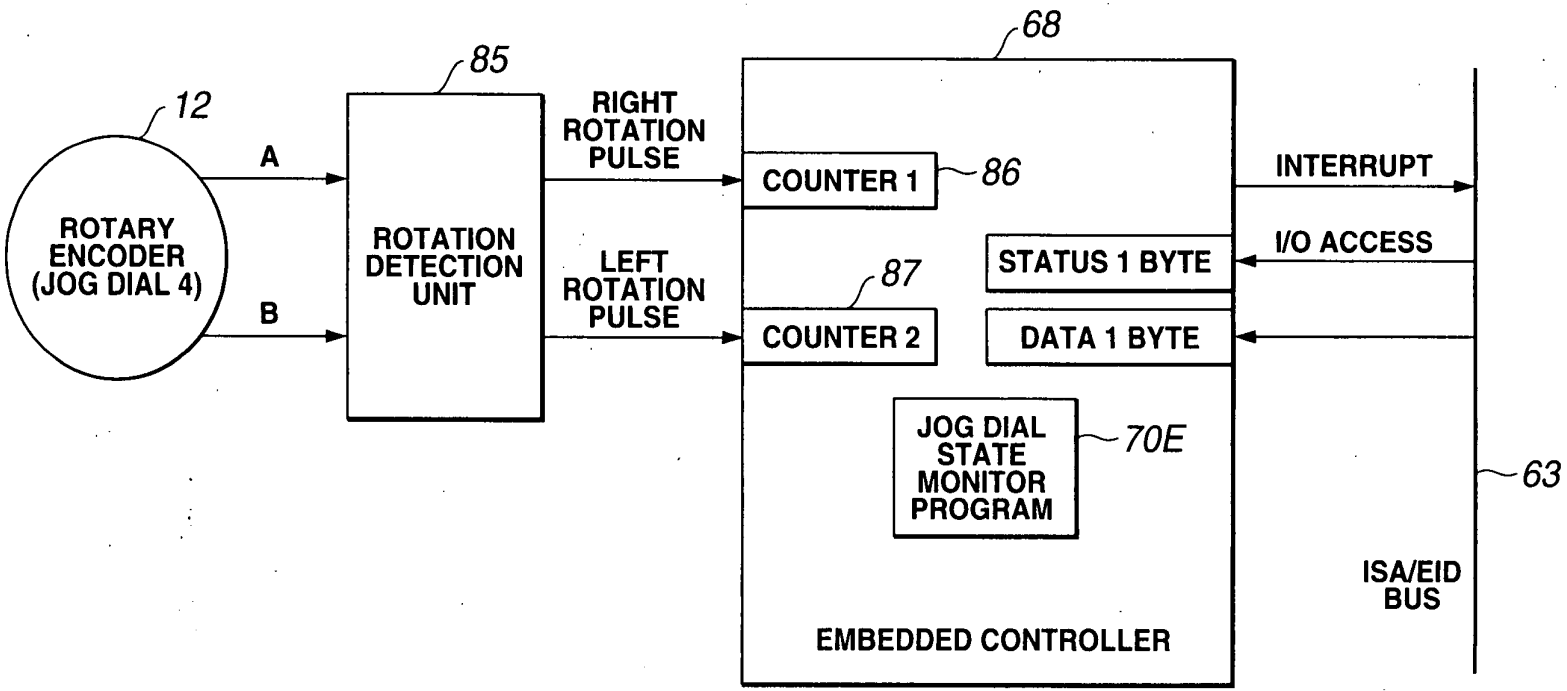


FIG.14

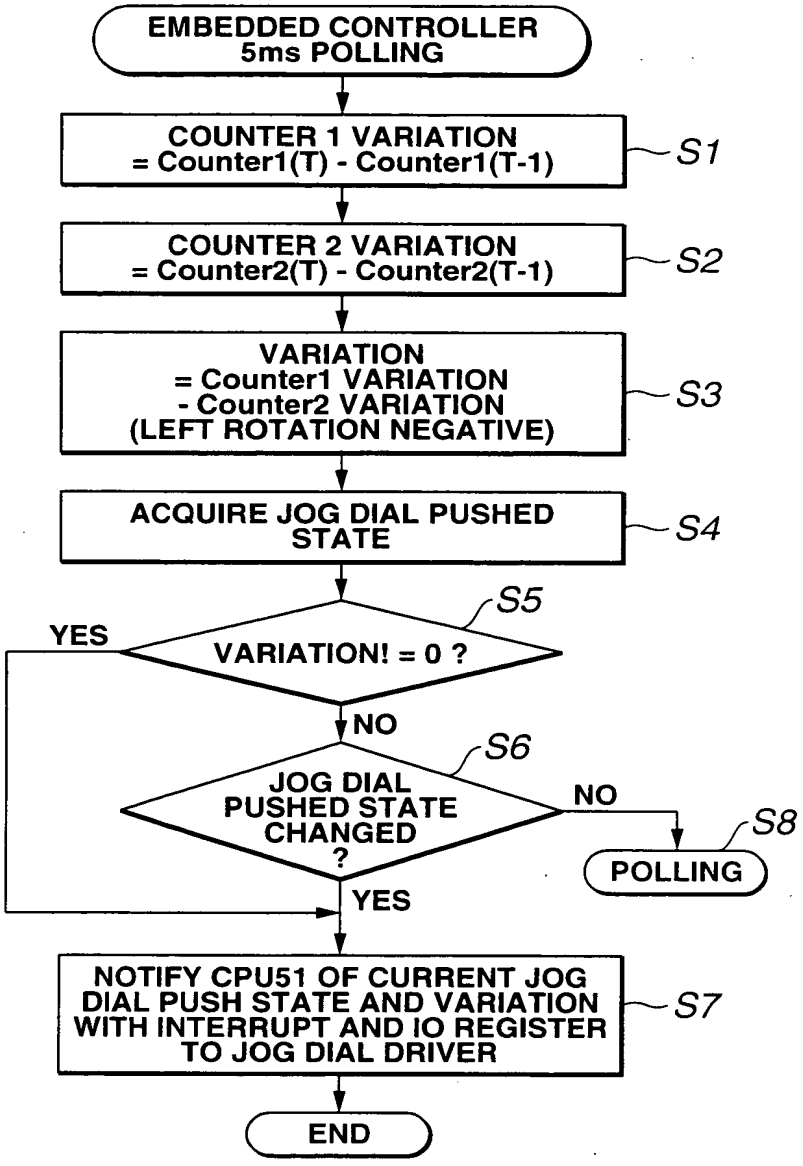

EMBEDDED CONTROLLER
5ms POLLING
COUNTER 1 VARIATION
= Counter1(T) - Counter1(T-1)
S1
COUNTER 2 VARIATION
= Counter2(T) - Counter2(T-1)
S2
VARIATION
= Counter1 VARIATION
- Counter2 VARIATION
(LEFT ROTATION NEGATIVE)
S3
ACQUIRE JOG DIAL PUSHED STATE
S4
S5
YES
VARIATION! = 0 ?
NO
S6
JOG DIAL PUSHED STATE CHANGED ?
NO
S8
POLLING
YES
NOTIFY CPU51 OF CURRENT JOG DIAL PUSH STATE AND VARIATION WITH INTERRUPT AND IO REGISTER TO JOG DIAL DRIVER
S7
END

FIG.15

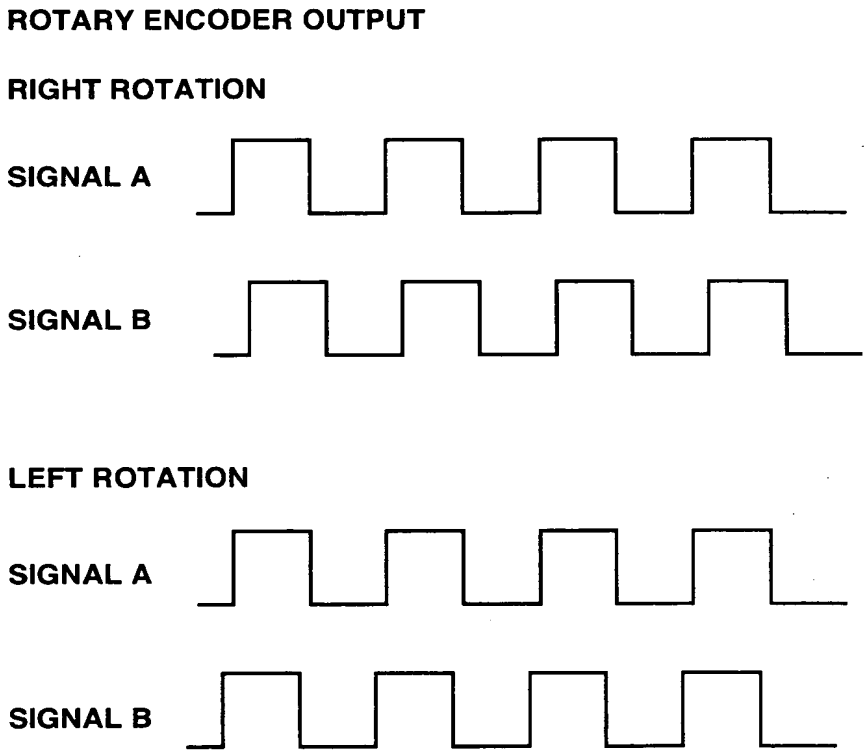

ROTARY ENCODER OUTPUT
RIGHT ROTATION
SIGNAL A
SIGNAL B
LEFT ROTATION
SIGNAL A
SIGNAL B

FIG.16

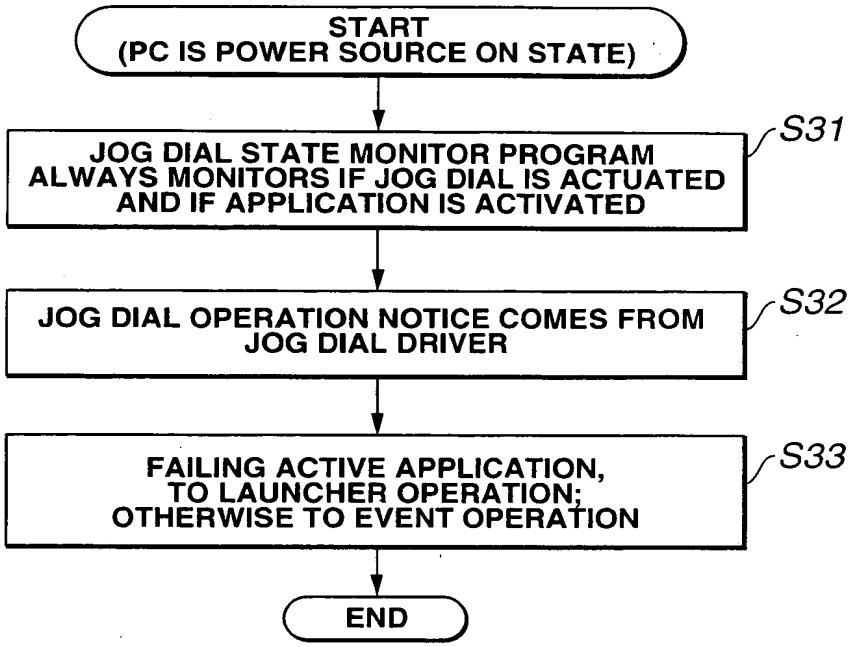

START
(PC IS POWER SOURCE ON STATE)
JOG DIAL STATE MONITOR PROGRAM ALWAYS MONITORS IF JOG DIAL IS ACTUATED AND IF APPLICATION IS ACTIVATED
S31
JOG DIAL OPERATION NOTICE COMES FROM JOG DIAL DRIVER
S32
FAILING ACTIVE APPLICATION, TO LAUNCHER OPERATION; OTHERWISE TO EVENT OPERATION
S33
END

FIG.17

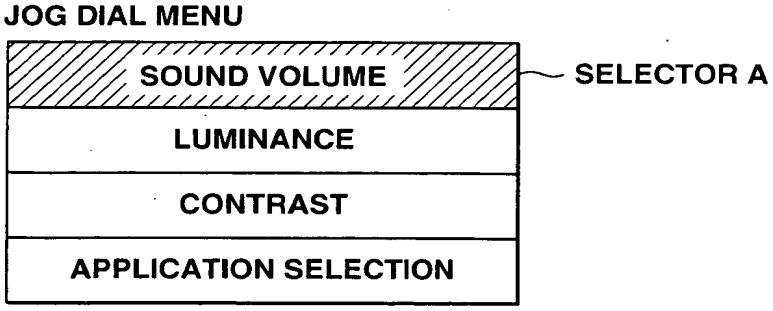

JOG DIAL MENU
SOUND VOLUME
SELECTOR A
LUMINANCE
CONTRAST
APPLICATION SELECTION

FIG.18

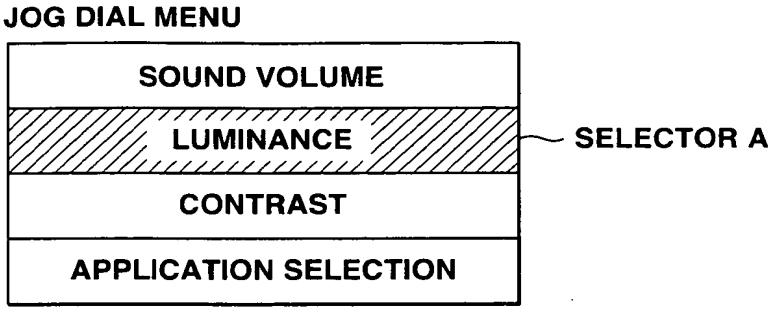


FIG.19

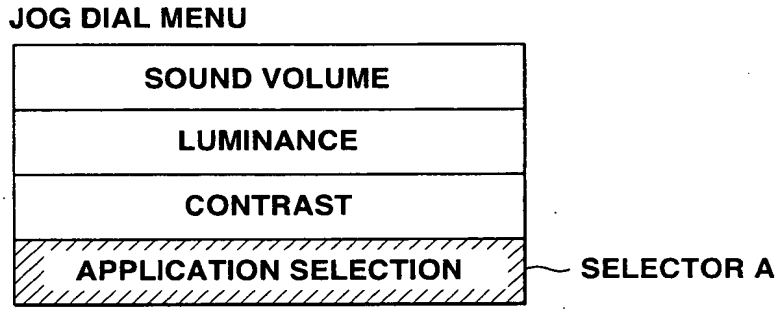


FIG.20

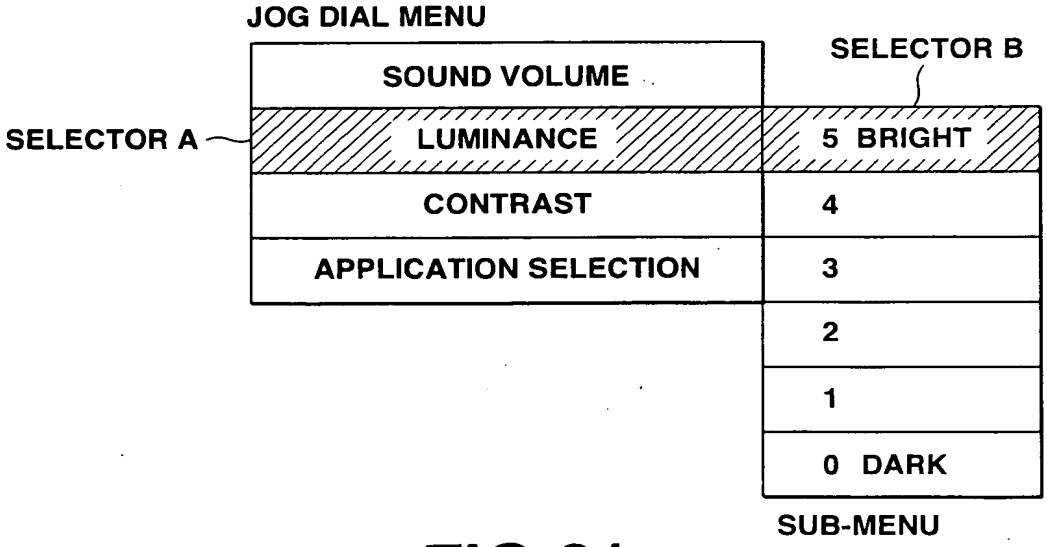


FIG.21

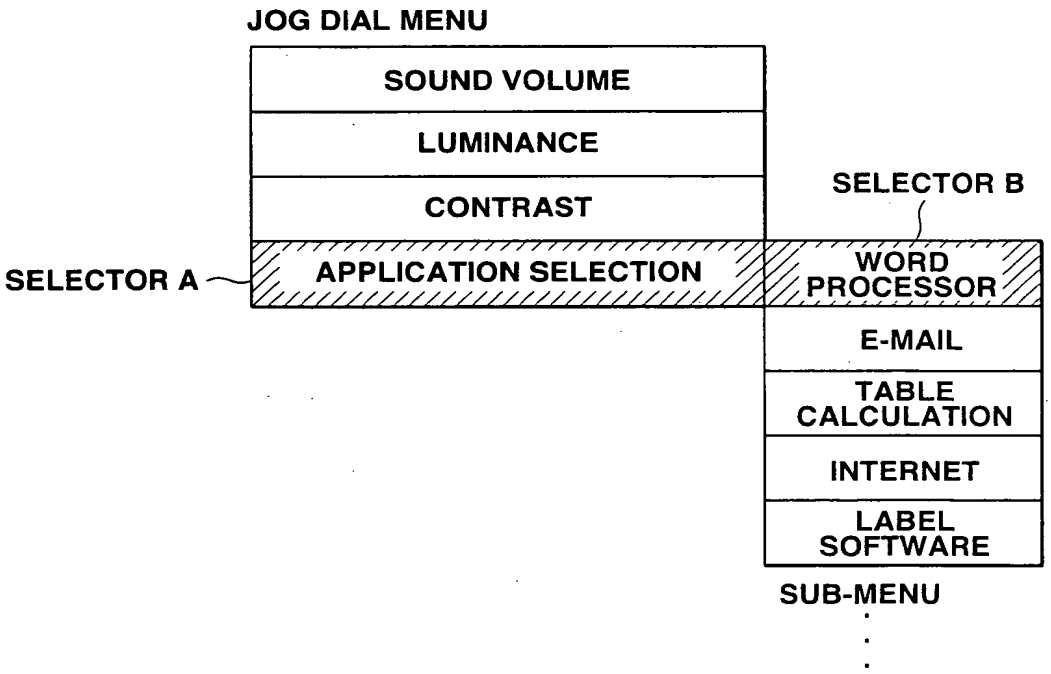

JOG DIAL MENU
SOUND VOLUME
LUMINANCE
CONTRAST
APPLICATION SELECTION
SELECTOR A
SELECTOR B
WORD PROCESSOR
E-MAIL
TABLE CALCULATION
INTERNET
LABEL SOFTWARE
SUB-MENU

FIG.22

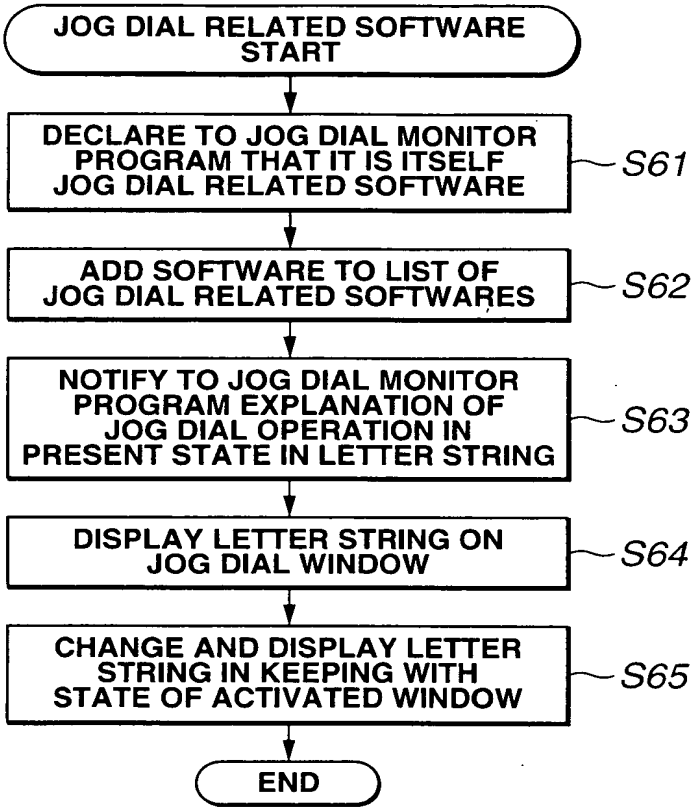

JOG DIAL RELATED SOFTWARE START
DECLARE TO JOG DIAL MONITOR PROGRAM THAT IT IS ITSELF JOG DIAL RELATED SOFTWARE
S61
ADD SOFTWARE TO LIST OF JOG DIAL RELATED SOFTWARES
S62
NOTIFY TO JOG DIAL MONITOR PROGRAM EXPLANATION OF JOG DIAL OPERATION IN PRESENT STATE IN LETTER STRING
S63
DISPLAY LETTER STRING ON JOG DIAL WINDOW
S64
CHANGE AND DISPLAY LETTER STRING IN KEEPING WITH STATE OF ACTIVATED WINDOW
S65
END

FIG.23

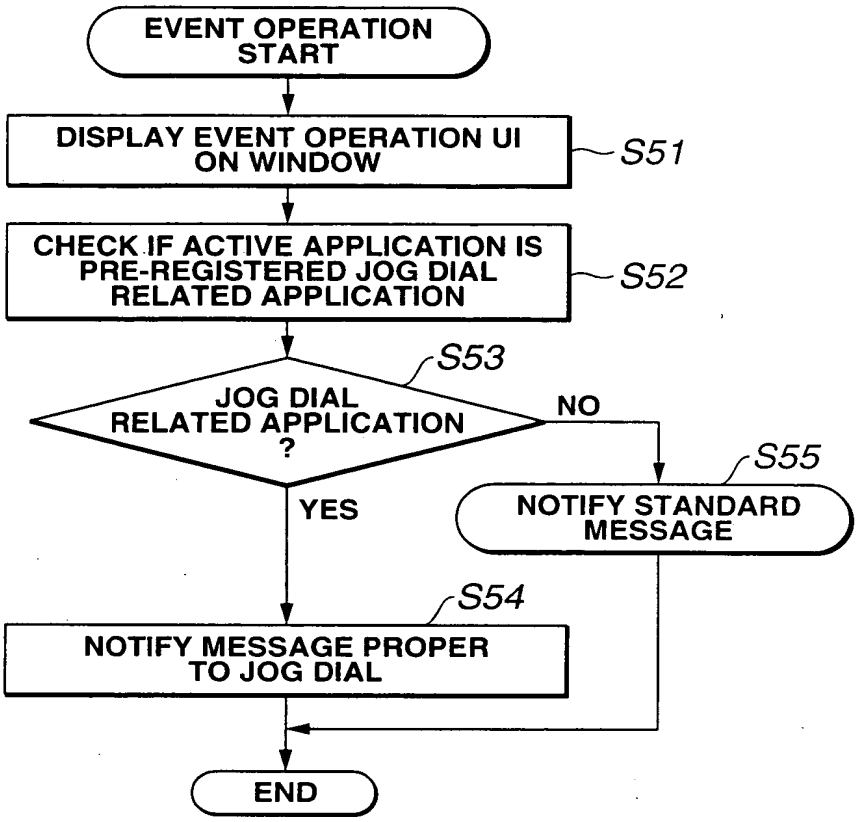

EVENT OPERATION START
DISPLAY EVENT OPERATION UI ON WINDOW
S51
CHECK IF ACTIVE APPLICATION IS PRE-REGISTERED JOG DIAL RELATED APPLICATION
S52
S53
JOG DIAL RELATED APPLICATION ?
NO
YES
S55
NOTIFY STANDARD MESSAGE
S54
NOTIFY MESSAGE PROPER TO JOG DIAL
END

FIG.24

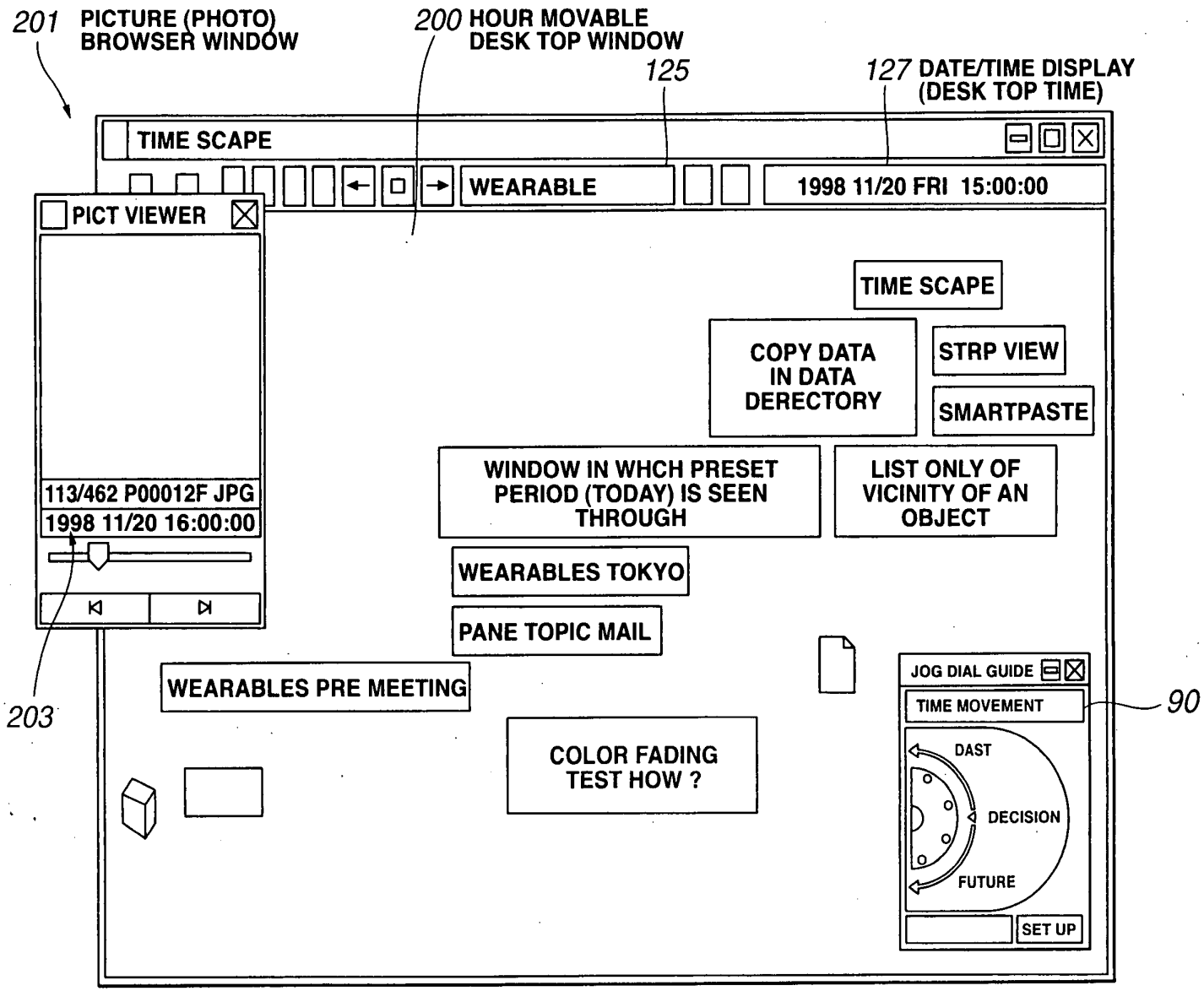


FIG.25

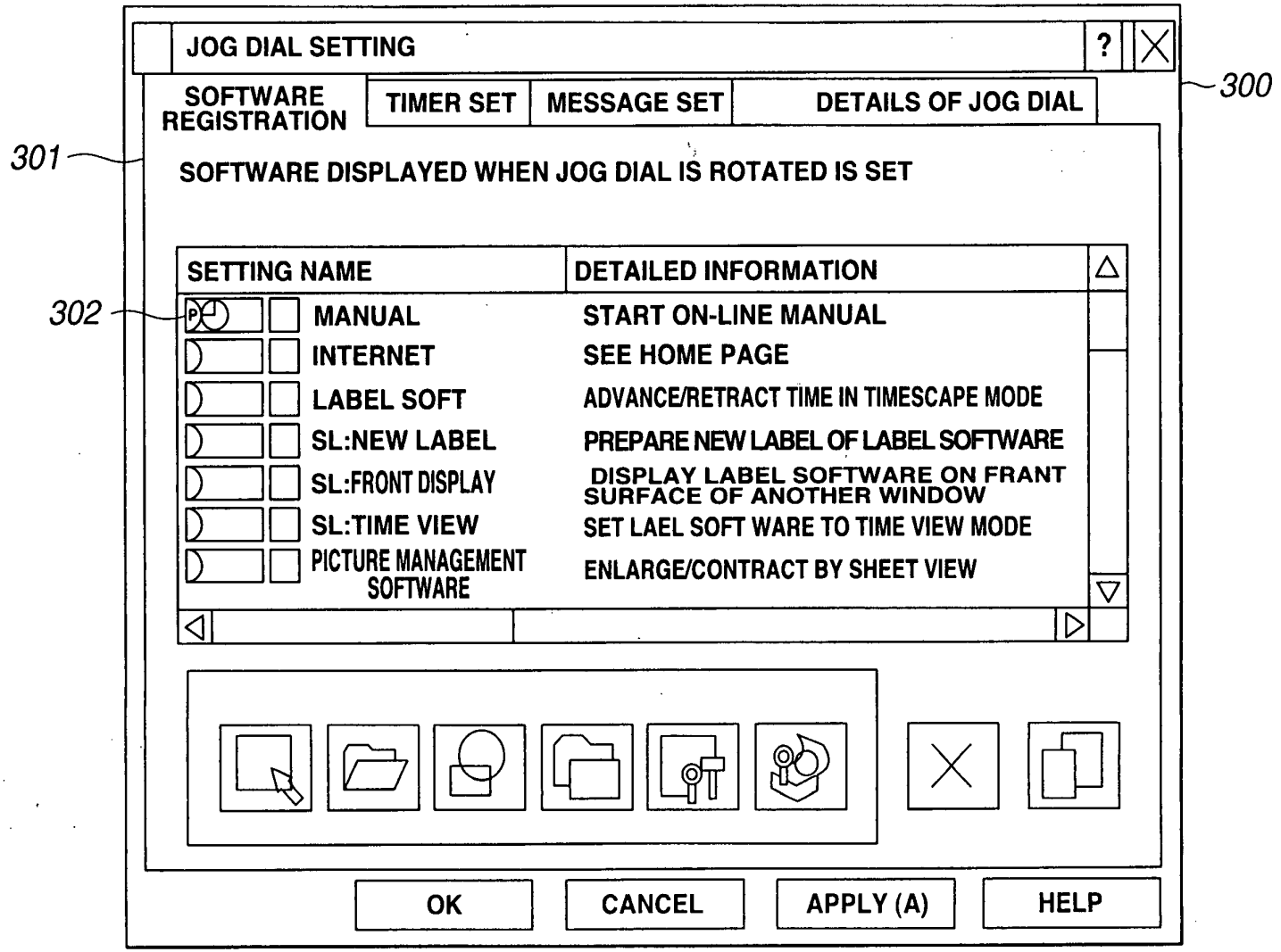

JOG DIAL SETTING
?
300
SOFTWARE REGISTRATION
TIMER SET
MESSAGE SET
DETAILS OF JOG DIAL
301
SOFTWARE DISPLAYED WHEN JOG DIAL IS ROTATED IS SET
SETTING NAME
DETAILED INFORMATION
302
MANUAL
START ON-LINE MANUAL
INTERNET
SEE HOME PAGE
LABEL SOFT
ADVANCE/RETRACT TIME IN TIMESCAPE MODE
SL:NEW LABEL
PREPARE NEW LABEL OF LABEL SOFTWARE
SL:FRONT DISPLAY
DISPLAY LABEL SOFTWARE ON FRANT SURFACE OF ANOTHER WINDOW
SL:TIME VIEW
SET LAEL SOFT WARE TO TIME VIEW MODE
PICTURE MANAGEMENT SOFTWARE
ENLARGE/CONTRACT BY SHEET VIEW
OK
CANCEL
APPLY (A)
HELP

FIG.26

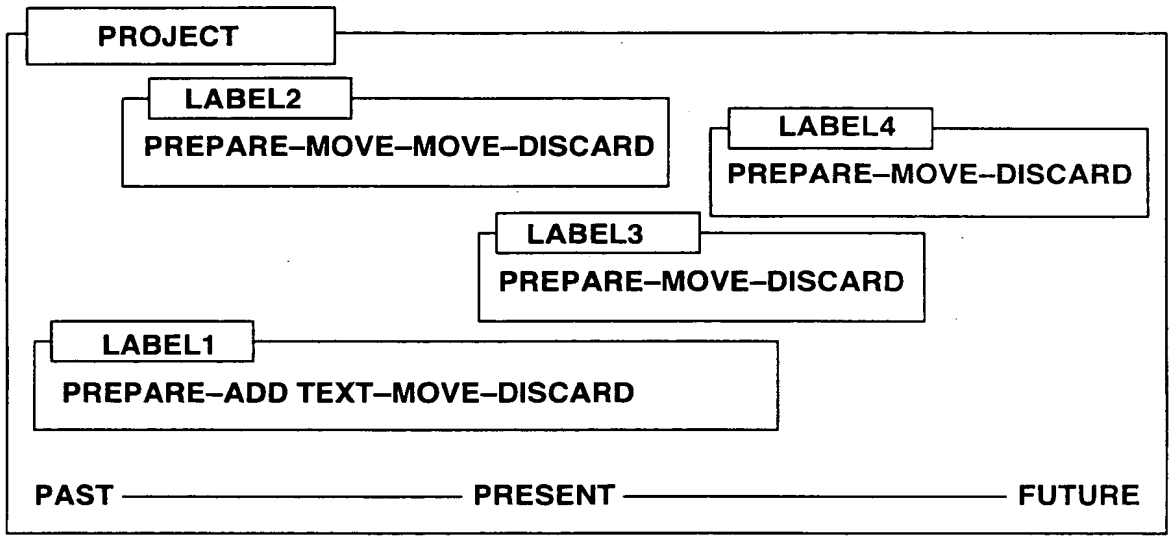

PROJECT
LABEL2
PREPARE–MOVE–MOVE–DISCARD
LABEL4
PREPARE–MOVE–DISCARD
LABEL3
PREPARE–MOVE–DISCARD
LABEL1
PREPARE–ADD TEXT–MOVE–DISCARD
PAST
PRESENT
FUTURE

FIG.27

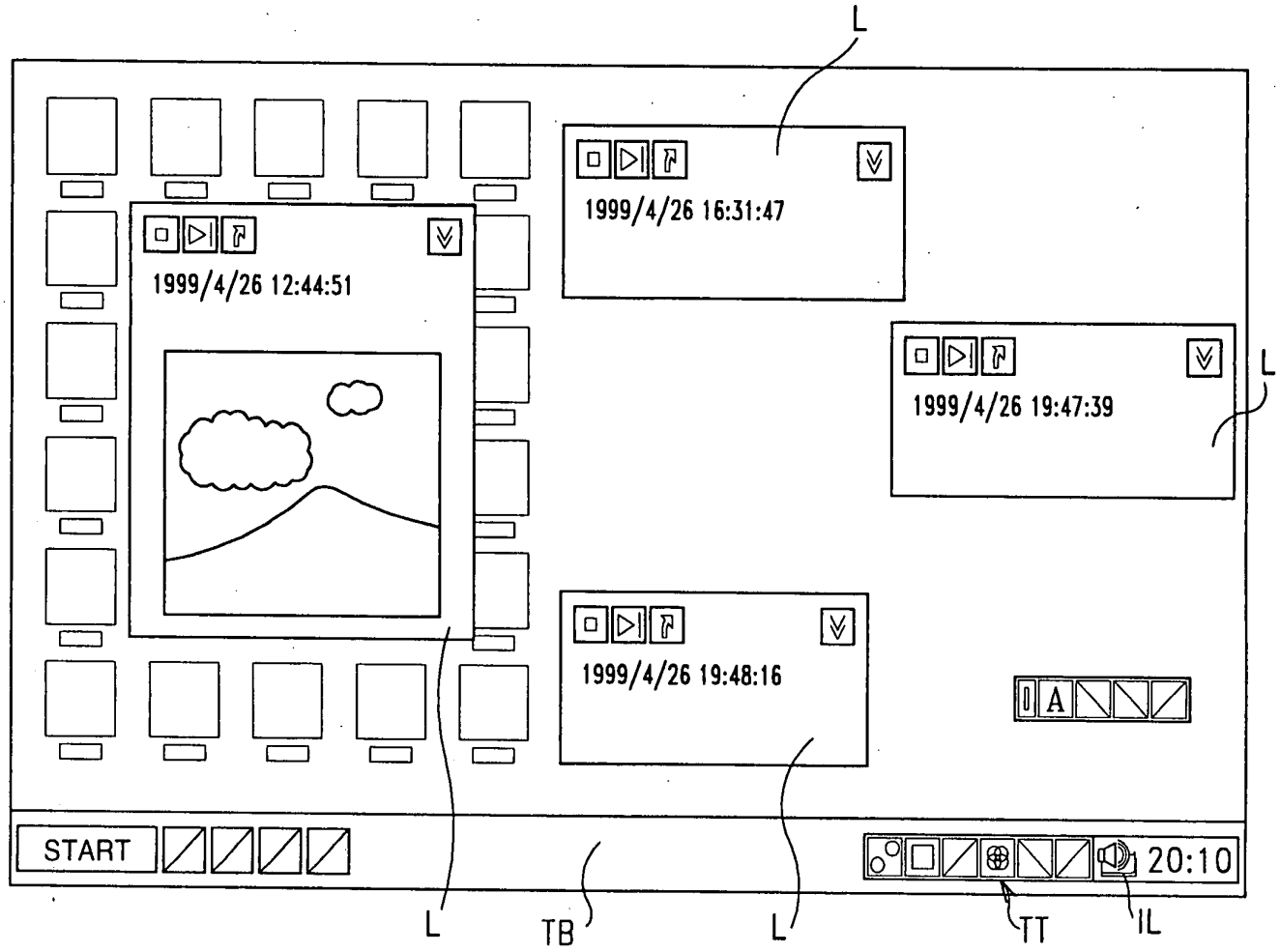


FIG.28

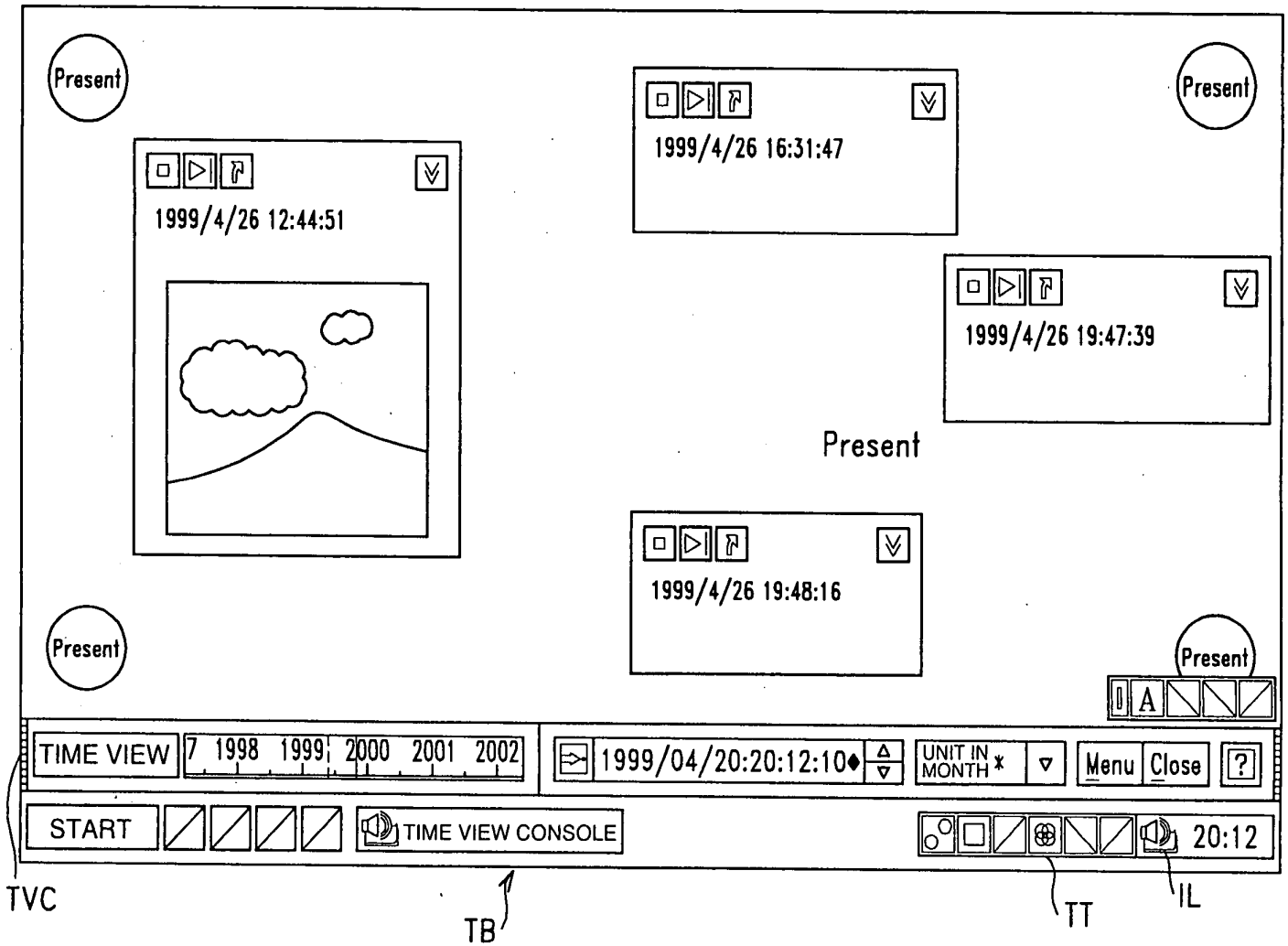


FIG.29

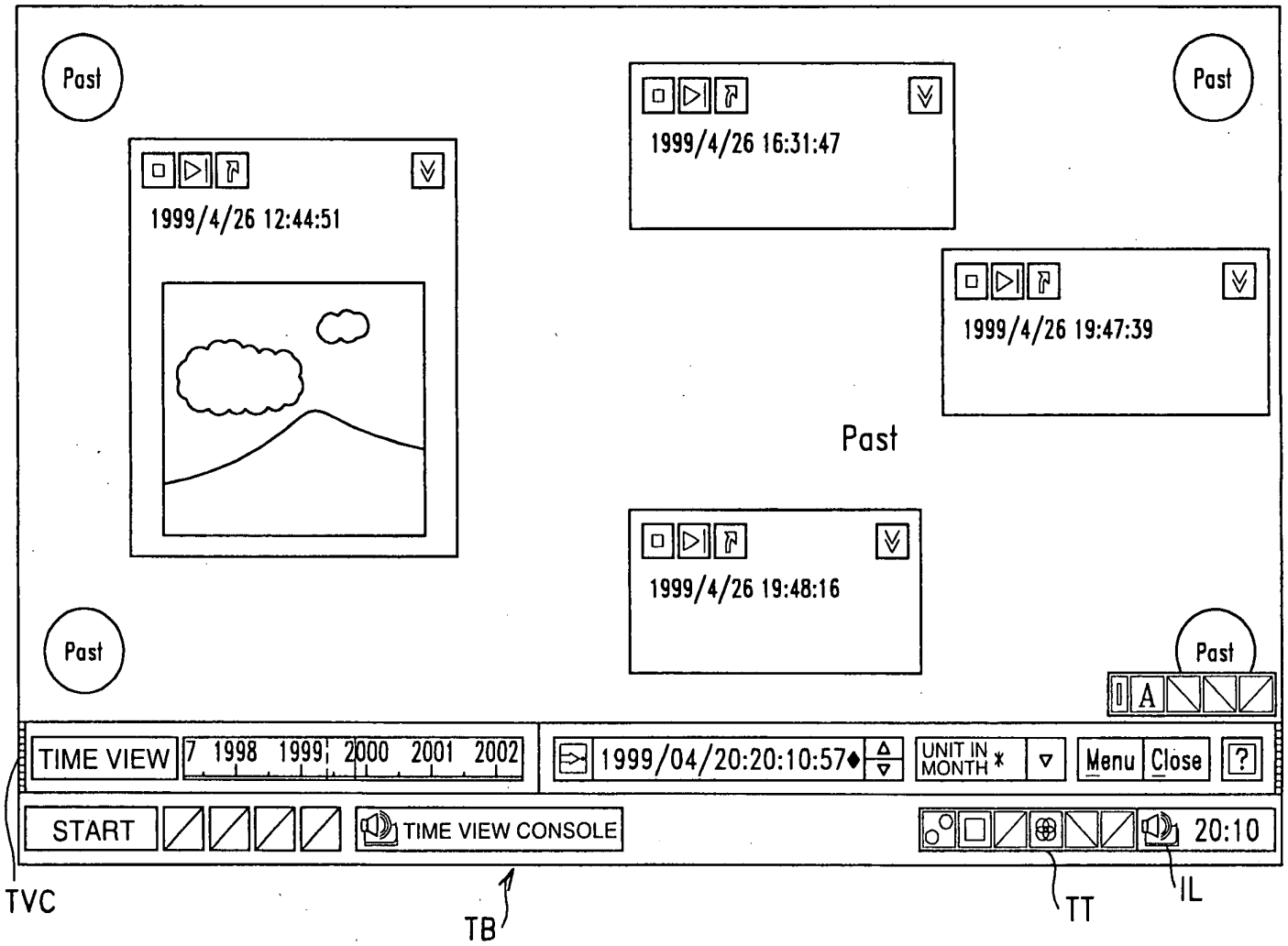


FIG.30

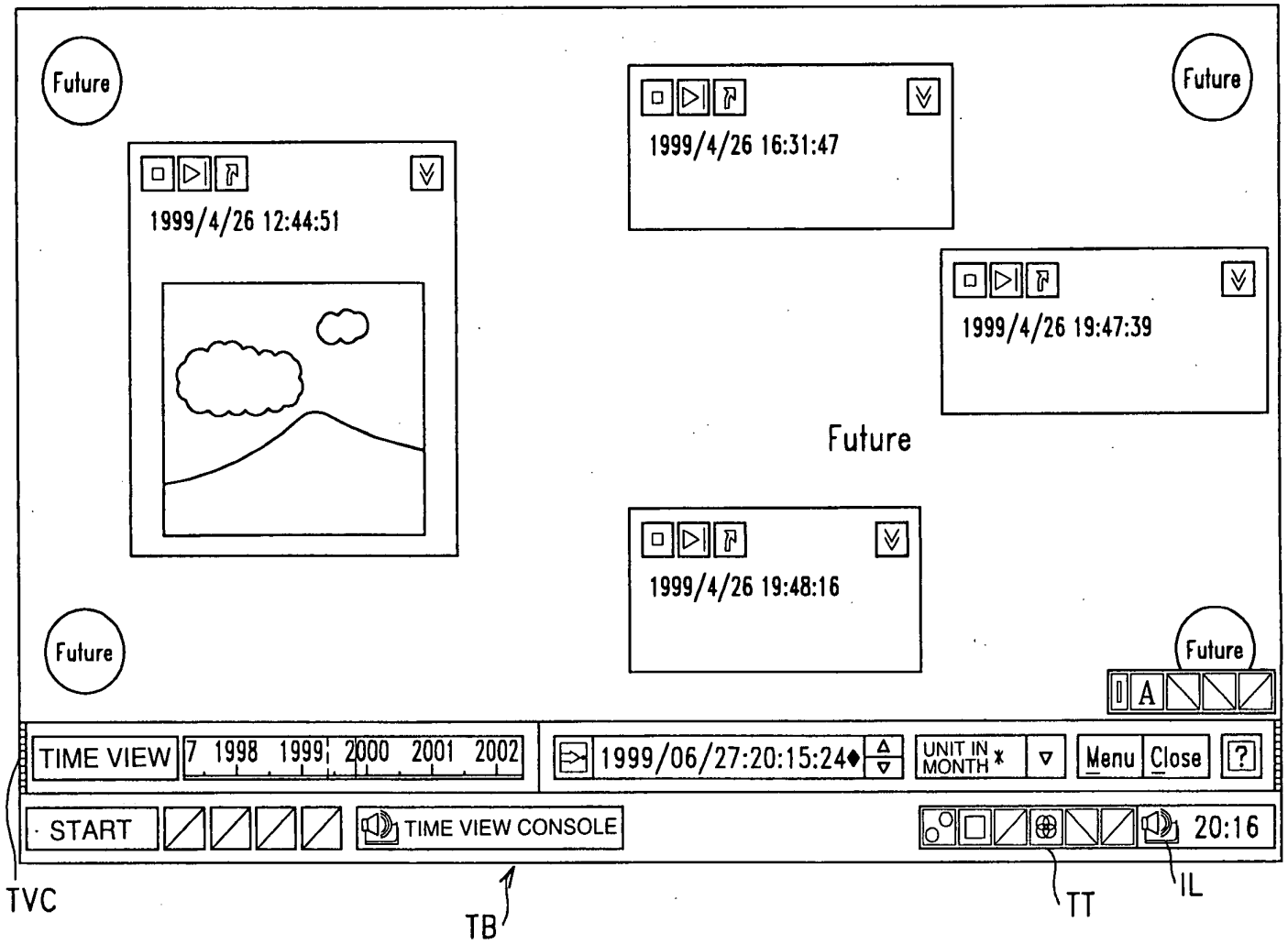


FIG.31

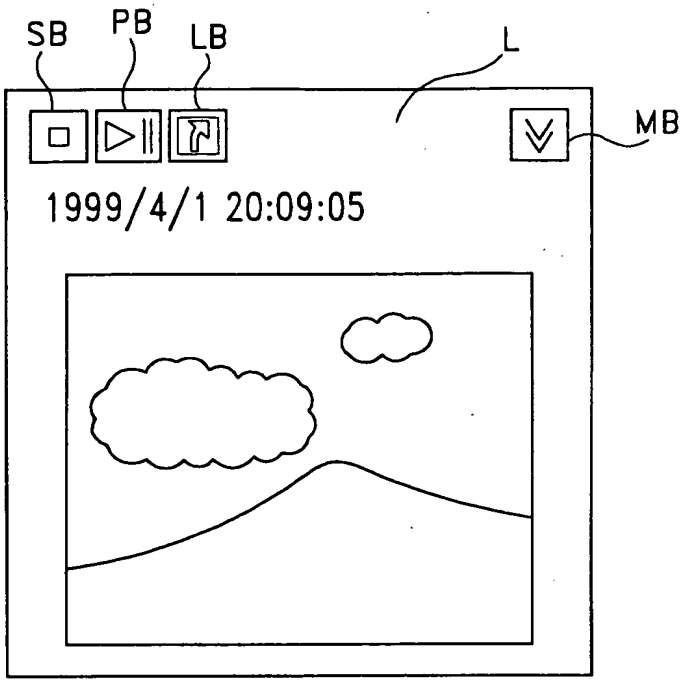


FIG.32

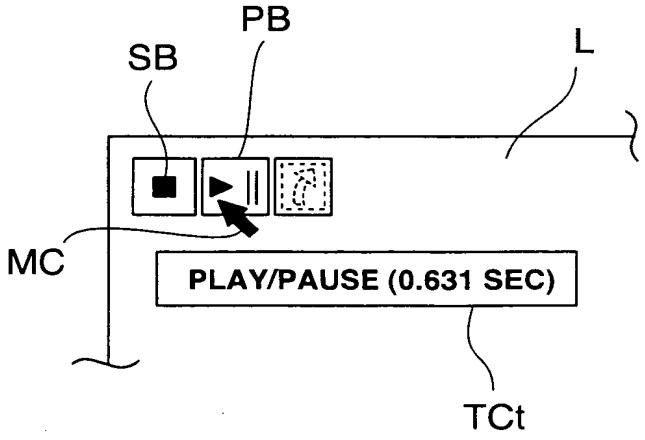


FIG.33

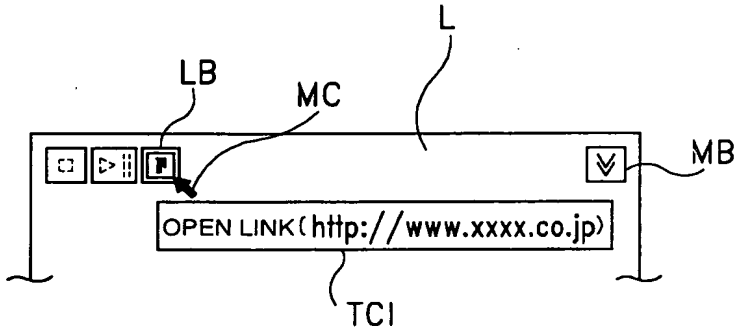


FIG.34

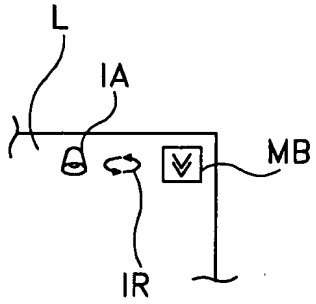


FIG.35

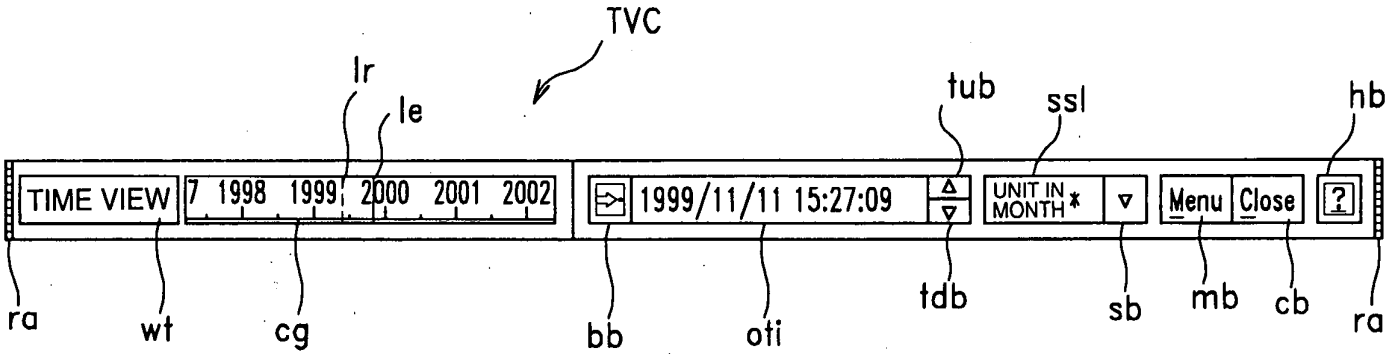


FIG.36

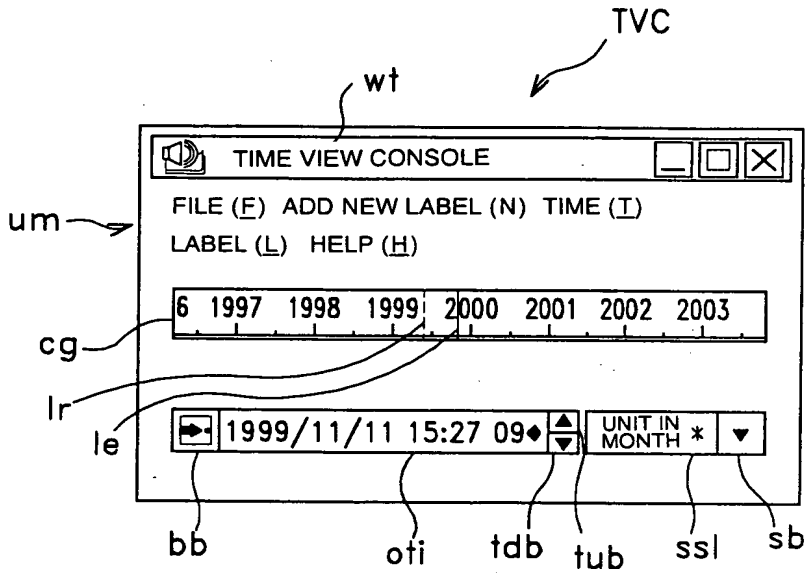

TVC
wt
TIME VIEW CONSOLE
um
FILE (F) ADD NEW LABEL (N) TIME (T)
LABEL (L) HELP (H)
6 1997 1998 1999 2000 2001 2002 2003
cg
lr
le
1999/11/11 15:27 09
UNIT IN MONTH *
bb
oti
tdb
tub
ssl
sb

FIG.37

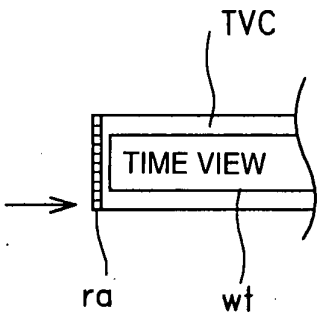


FIG.38A

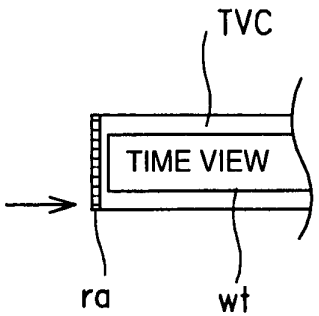


FIG.38B

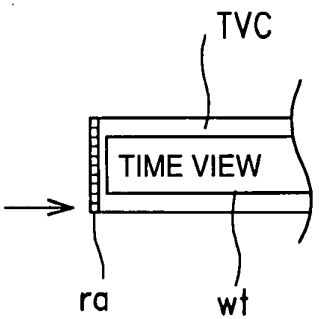


FIG.38C

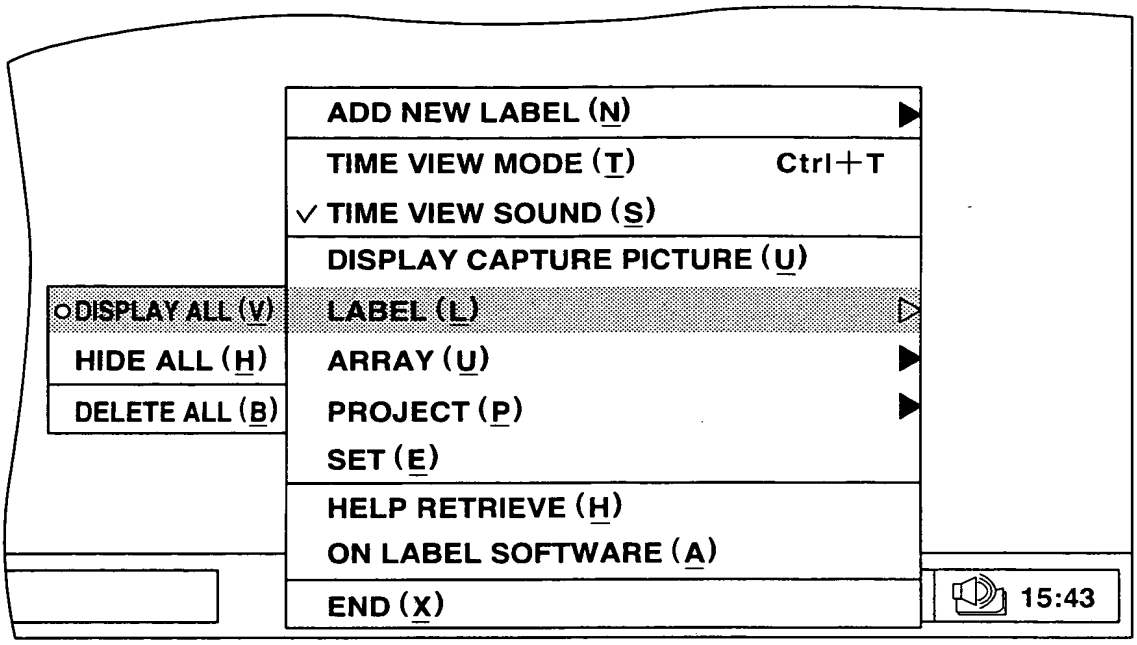

ADD NEW LABEL (N)
TIME VIEW MODE (T) Ctrl+T
✓ TIME VIEW SOUND (S)
DISPLAY CAPTURE PICTURE (U)
○DISPLAY ALL (V)
LABEL (L)
HIDE ALL (H)
ARRAY (U)
DELETE ALL (B)
PROJECT (P)
SET (E)
HELP RETRIEVE (H)
ON LABEL SOFTWARE (A)
END (X)
15:43

FIG.39

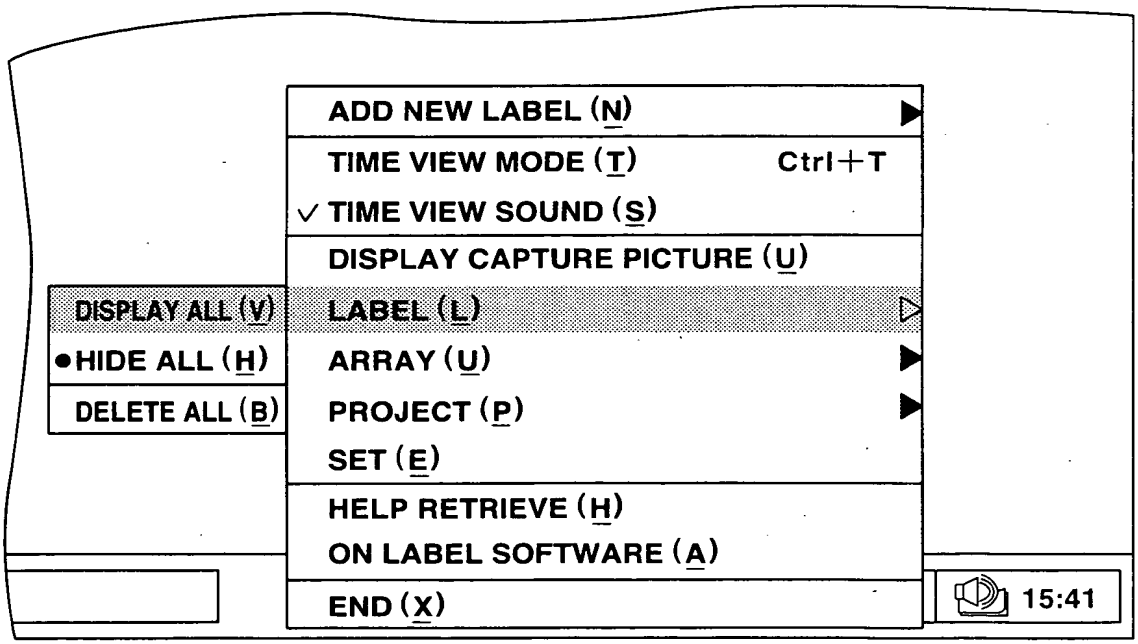

ADD NEW LABEL (N)
TIME VIEW MODE (T) Ctrl+T
✓ TIME VIEW SOUND (S)
DISPLAY CAPTURE PICTURE (U)
DISPLAY ALL (V)
LABEL (L)
●HIDE ALL (H)
ARRAY (U)
DELETE ALL (B)
PROJECT (P)
SET (E)
HELP RETRIEVE (H)
ON LABEL SOFTWARE (A)
END (X)
15:41

FIG.40

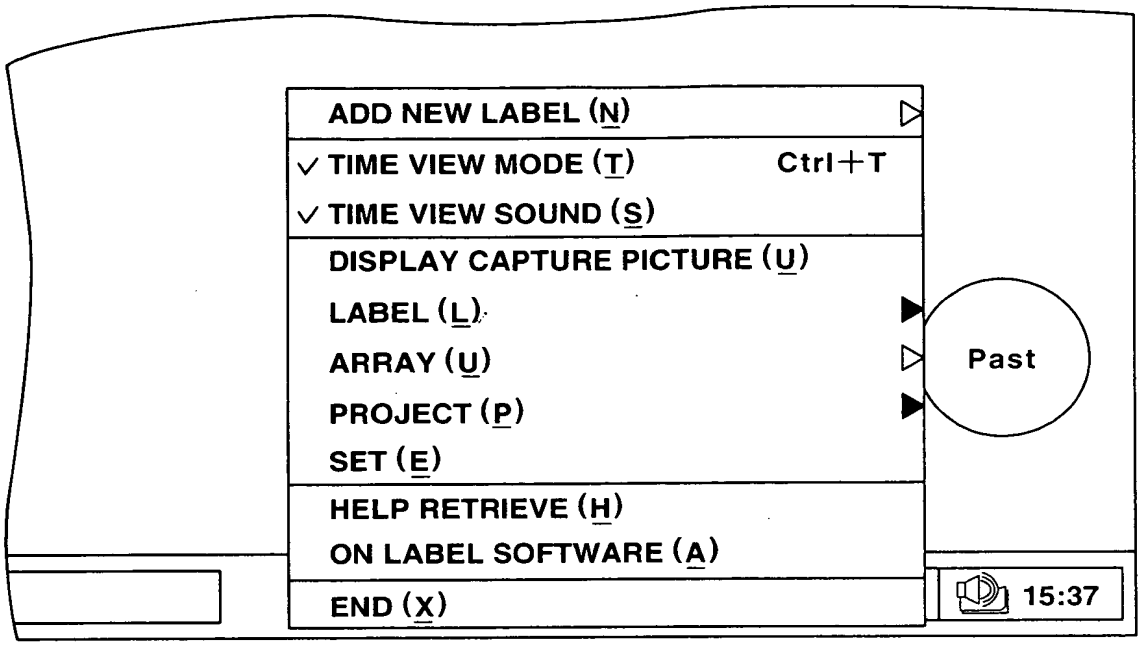

ADD NEW LABEL (N)
✓ TIME VIEW MODE (T) Ctrl+T
✓ TIME VIEW SOUND (S)
DISPLAY CAPTURE PICTURE (U)
LABEL (L)
ARRAY (U)
PROJECT (P)
SET (E)
HELP RETRIEVE (H)
ON LABEL SOFTWARE (A)
END (X)
Past
15:37

FIG.41

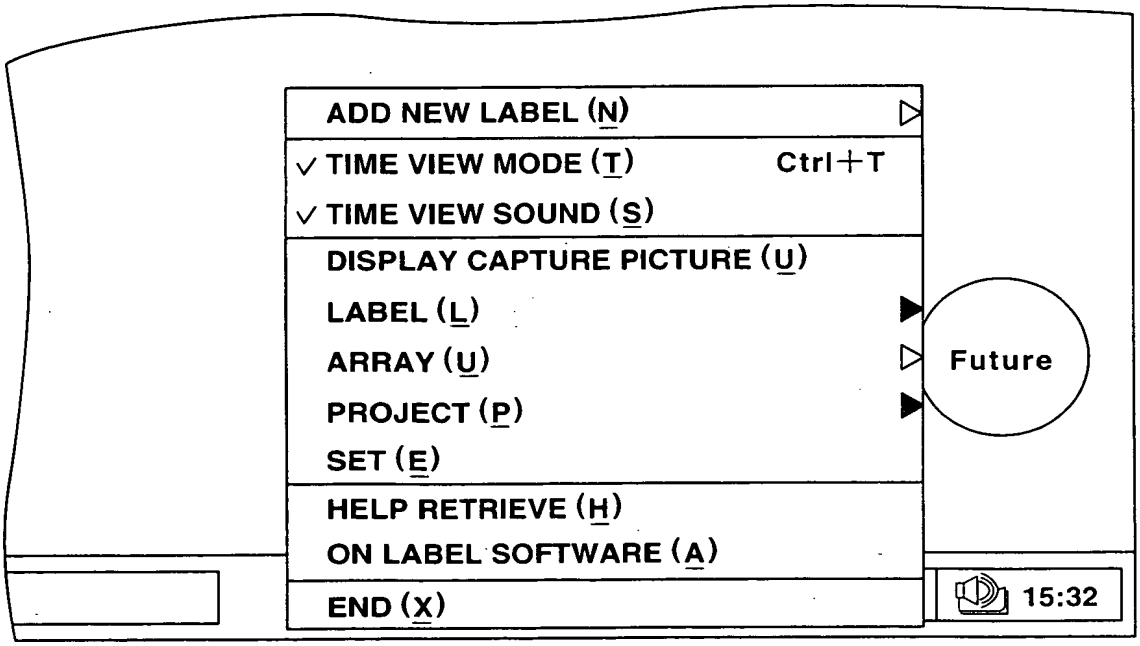

ADD NEW LABEL (N)
✓ TIME VIEW MODE (T) Ctrl+T
✓ TIME VIEW SOUND (S)
DISPLAY CAPTURE PICTURE (U)
LABEL (L)
ARRAY (U)
PROJECT (P)
SET (E)
HELP RETRIEVE (H)
ON LABEL SOFTWARE (A)
END (X)
Future
15:32

FIG.42

FIG.43A

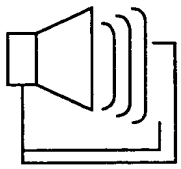


FIG.43B

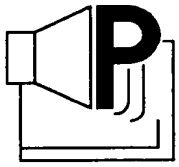


FIG.43C

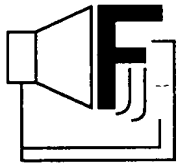
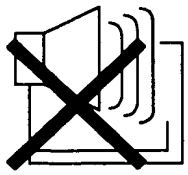


FIG.43D



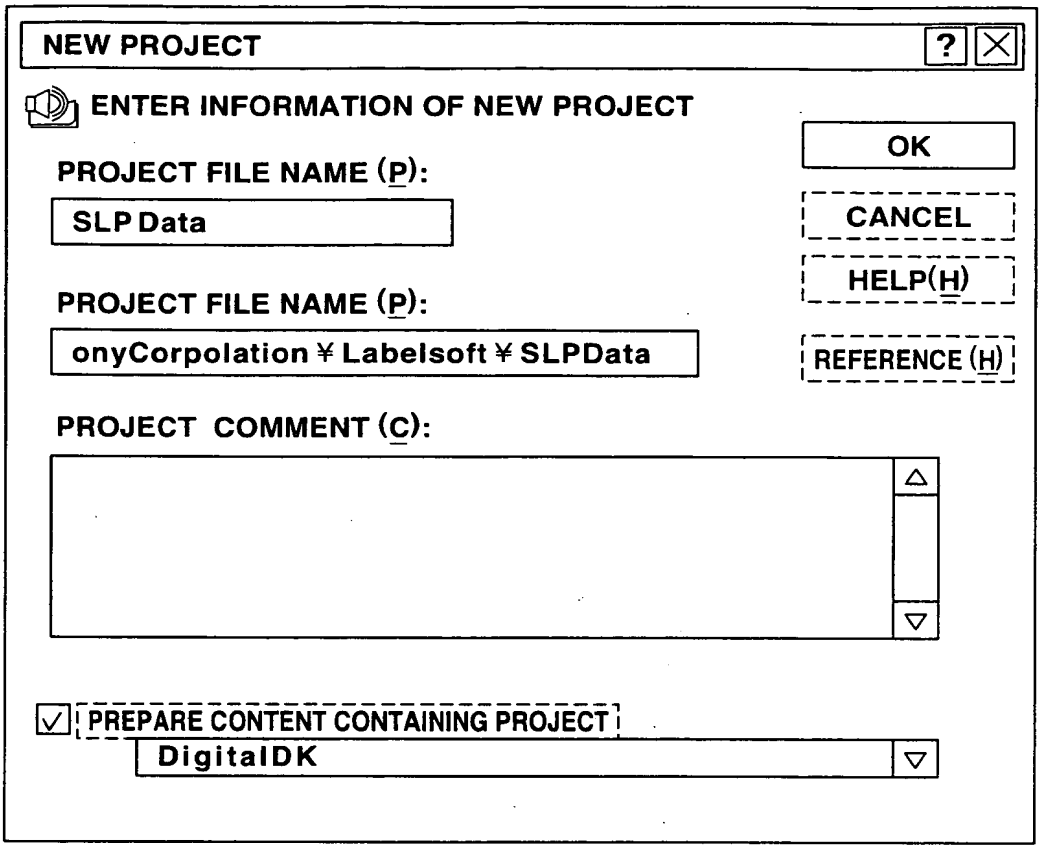

NEW PROJECT
ENTER INFORMATION OF NEW PROJECT
OK
PROJECT FILE NAME (P):
SLP Data
CANCEL
HELP(H)
PROJECT FILE NAME (P):
onyCorpolation ¥ Labelsoft ¥ SLPData
REFERENCE (H)
PROJECT COMMENT (C):
PREPARE CONTENT CONTAINING PROJECT
DigitalDK

FIG.44

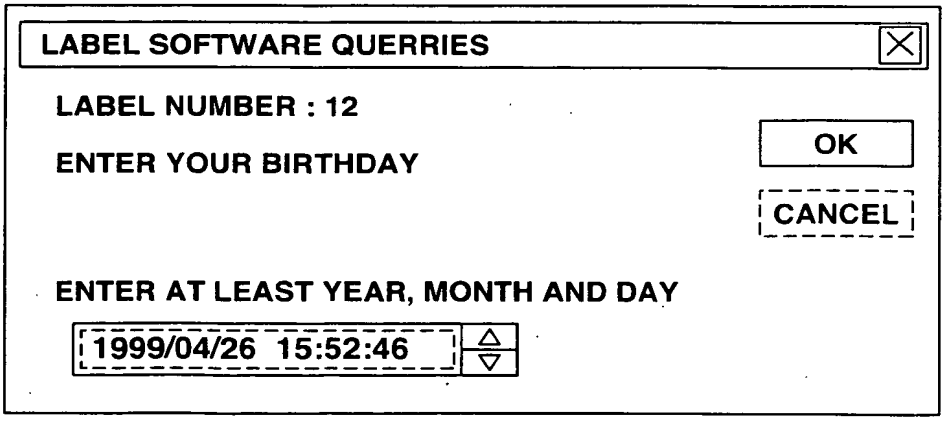

LABEL SOFTWARE QUERRIES
LABEL NUMBER : 12
ENTER YOUR BIRTHDAY
OK
CANCEL
ENTER AT LEAST YEAR, MONTH AND DAY
1999/04/26 15:52:46

FIG.45

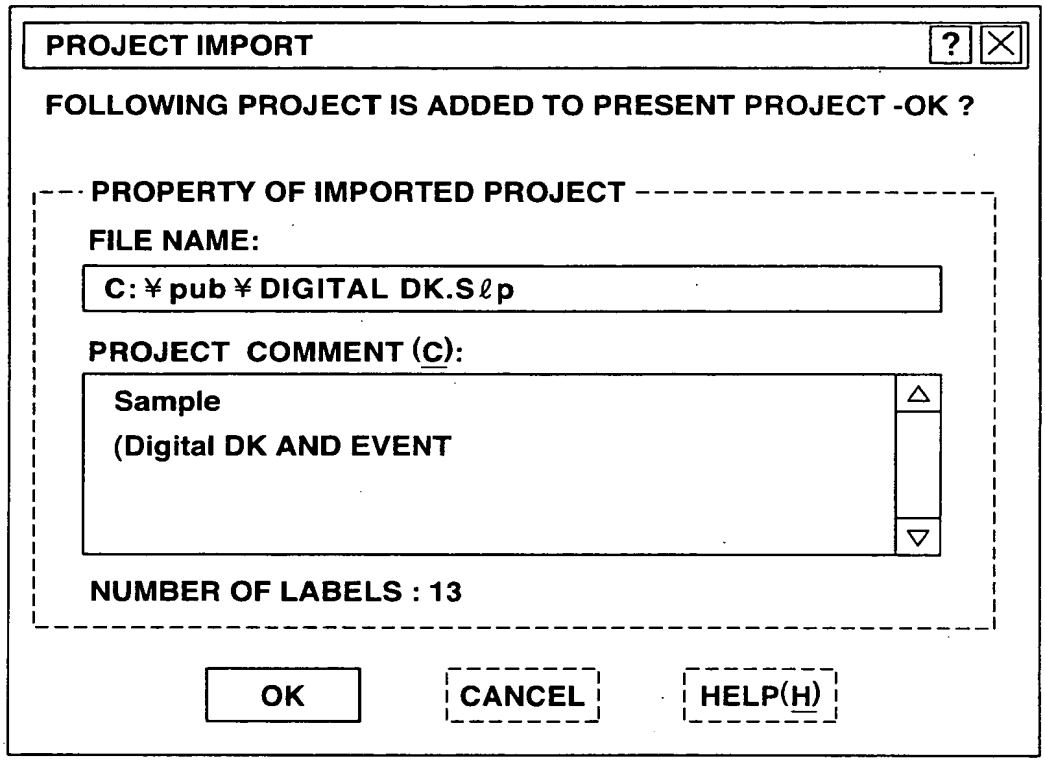

PROJECT IMPORT
FOLLOWING PROJECT IS ADDED TO PRESENT PROJECT -OK ?
PROPERTY OF IMPORTED PROJECT
FILE NAME:
C:¥pub¥DIGITAL DK.Sℓp
PROJECT COMMENT (C):
Sample
(Digital DK AND EVENT
NUMBER OF LABELS : 13
OK
CANCEL
HELP(H)

FIG.46

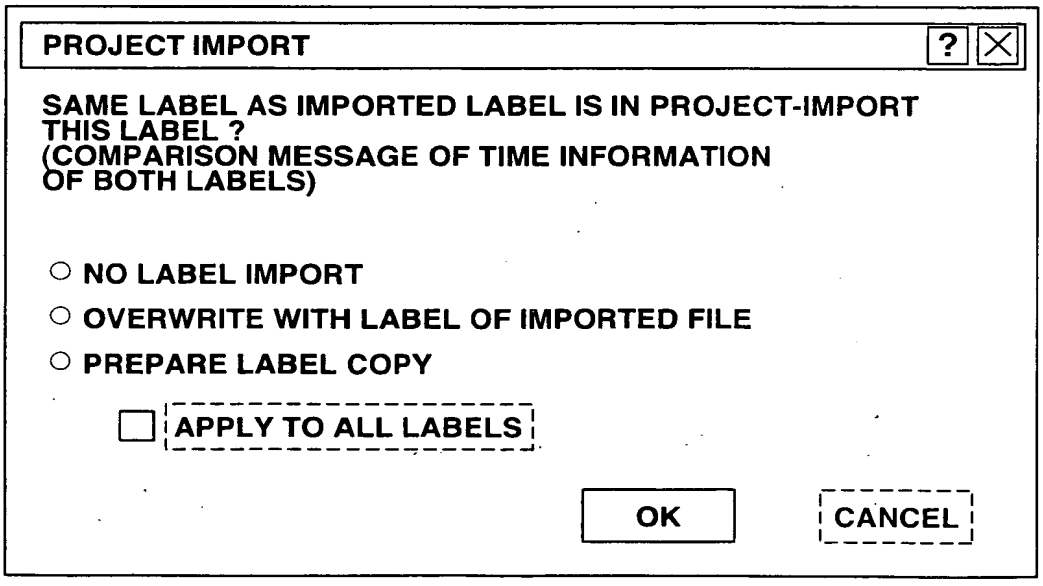

PROJECT IMPORT
SAME LABEL AS IMPORTED LABEL IS IN PROJECT-IMPORT
THIS LABEL ?
(COMPARISON MESSAGE OF TIME INFORMATION
OF BOTH LABELS)
NO LABEL IMPORT
OVERWRITE WITH LABEL OF IMPORTED FILE
PREPARE LABEL COPY
APPLY TO ALL LABELS
OK
CANCEL

FIG.47

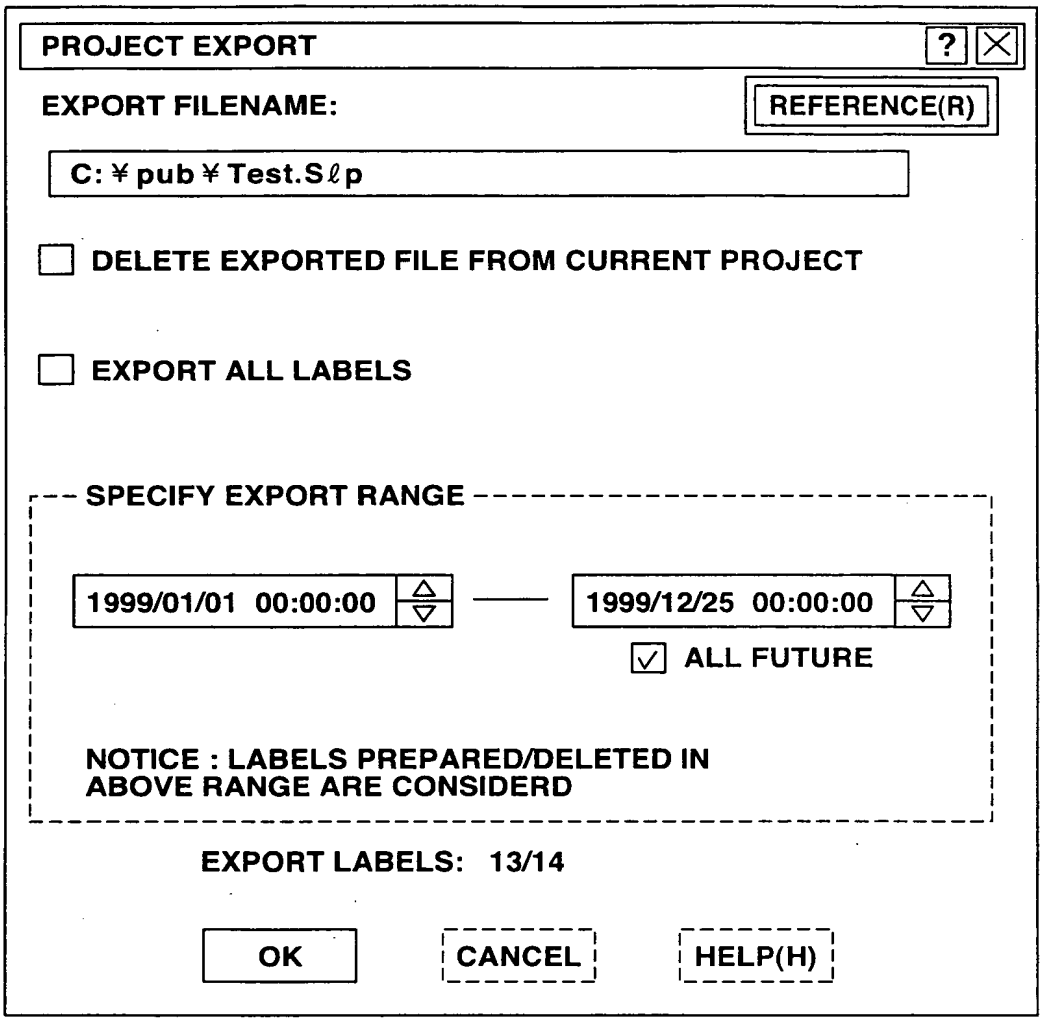

PROJECT EXPORT
EXPORT FILENAME:
REFERENCE(R)
C: ¥ pub ¥ Test.Sℓp
DELETE EXPORTED FILE FROM CURRENT PROJECT
EXPORT ALL LABELS
SPECIFY EXPORT RANGE
1999/01/01 00:00:00
1999/12/25 00:00:00
ALL FUTURE
NOTICE : LABELS PREPARED/DELETED IN ABOVE RANGE ARE CONSIDERD
EXPORT LABELS: 13/14
OK
CANCEL
HELP(H)

FIG.48

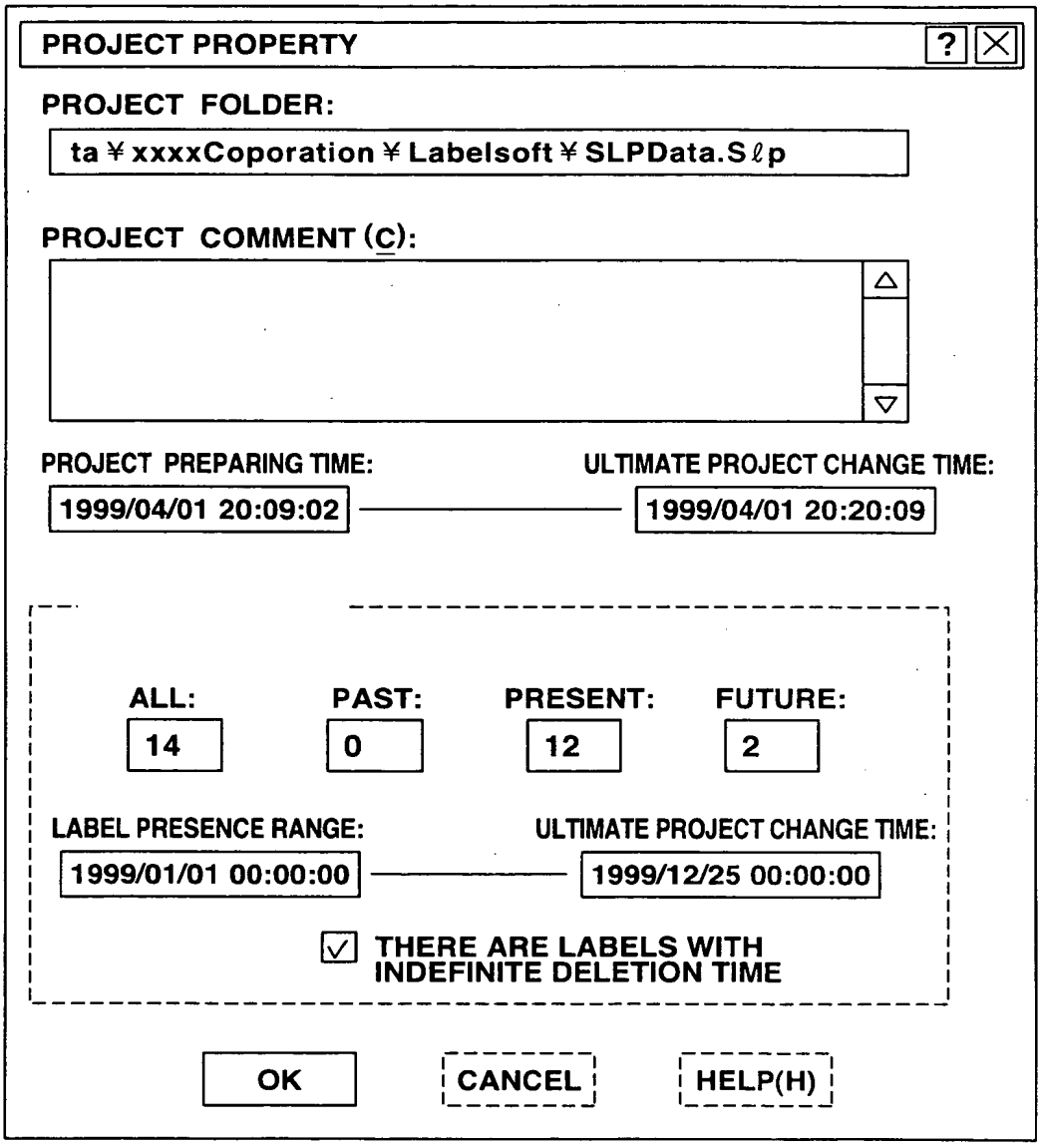

PROJECT PROPERTY
?
PROJECT FOLDER:
ta ¥ xxxxCoporation ¥ Labelsoft ¥ SLPData.Sℓp
PROJECT COMMENT (C):
PROJECT PREPARING TIME:
1999/04/01 20:09:02
ULTIMATE PROJECT CHANGE TIME:
1999/04/01 20:20:09
ALL:
14
PAST:
0
PRESENT:
12
FUTURE:
2
LABEL PRESENCE RANGE:
1999/01/01 00:00:00
ULTIMATE PROJECT CHANGE TIME:
1999/12/25 00:00:00
THERE ARE LABELS WITH INDEFINITE DELETION TIME
OK
CANCEL
HELP(H)

FIG.49

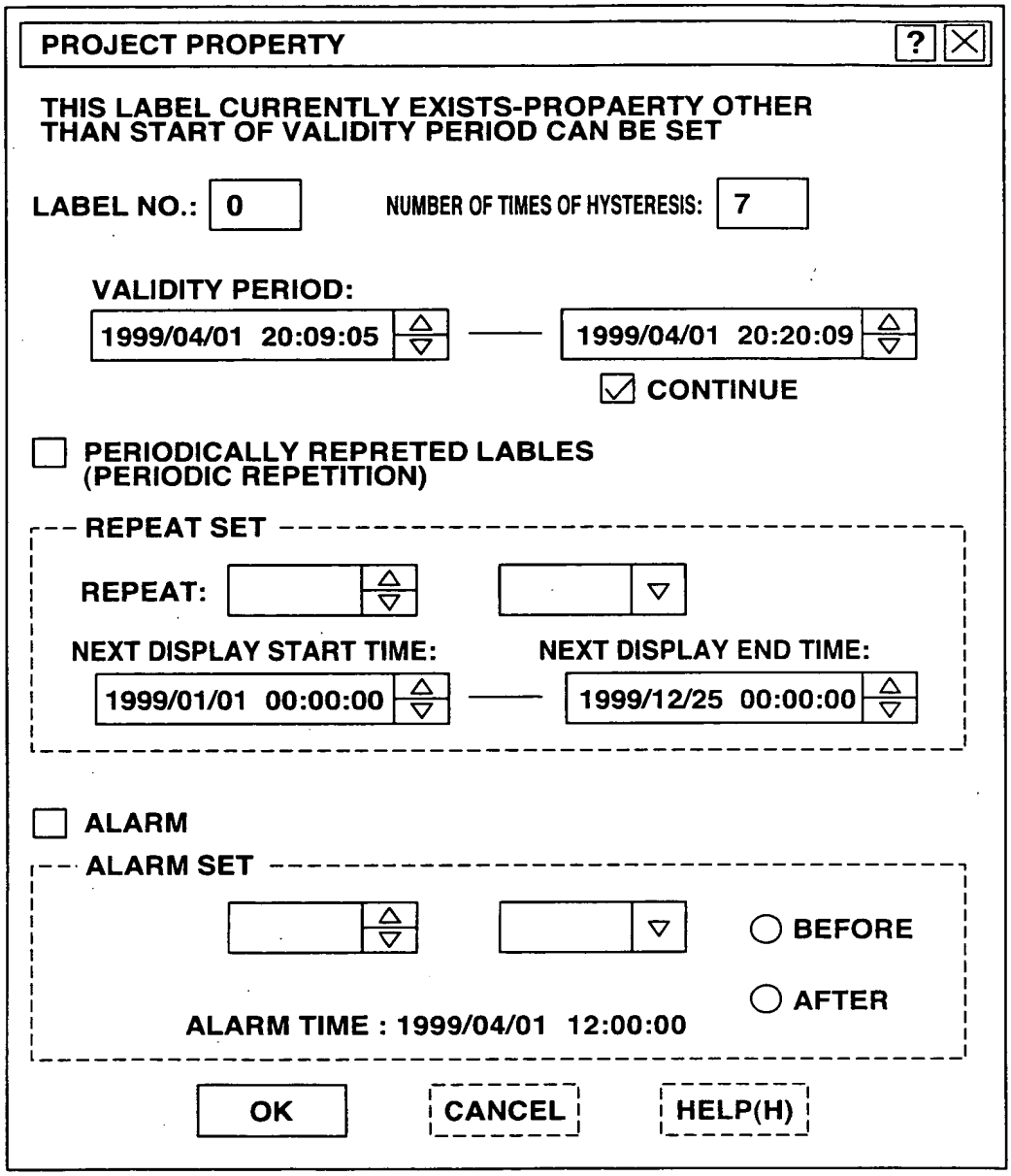

PROJECT PROPERTY
THIS LABEL CURRENTLY EXISTS-PROPAERTY OTHER THAN START OF VALIDITY PERIOD CAN BE SET
LABEL NO.: 0
NUMBER OF TIMES OF HYSTERESIS: 7
VALIDITY PERIOD:
1999/04/01 20:09:05
1999/04/01 20:20:09
CONTINUE
PERIODICALLY REPRETED LABLES (PERIODIC REPETITION)
REPEAT SET
REPEAT:
NEXT DISPLAY START TIME:
1999/01/01 00:00:00
NEXT DISPLAY END TIME:
1999/12/25 00:00:00
ALARM
ALARM SET
BEFORE
AFTER
ALARM TIME : 1999/04/01 12:00:00
OK
CANCEL
HELP(H)

FIG.50

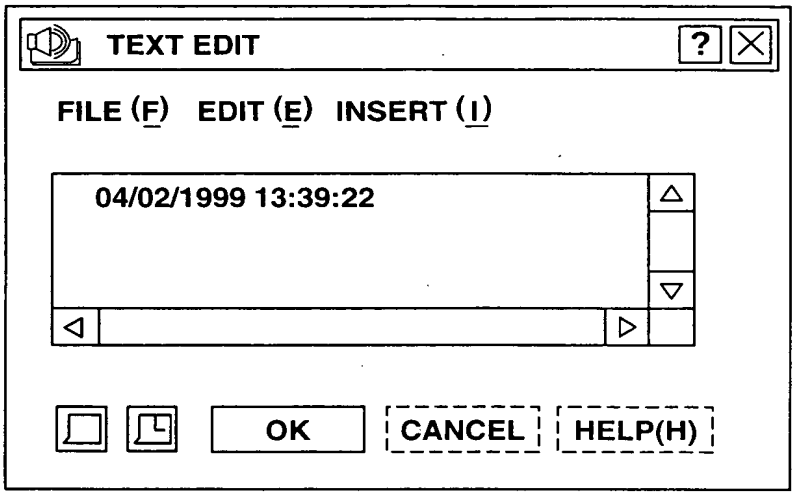

TEXT EDIT
FILE (F) EDIT (E) INSERT (I)
04/02/1999 13:39:22
OK
CANCEL
HELP(H)

FIG.51

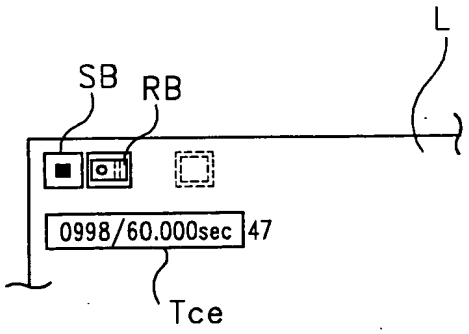

L
SB
RB
0998/60.000sec
47
Tce

FIG.52

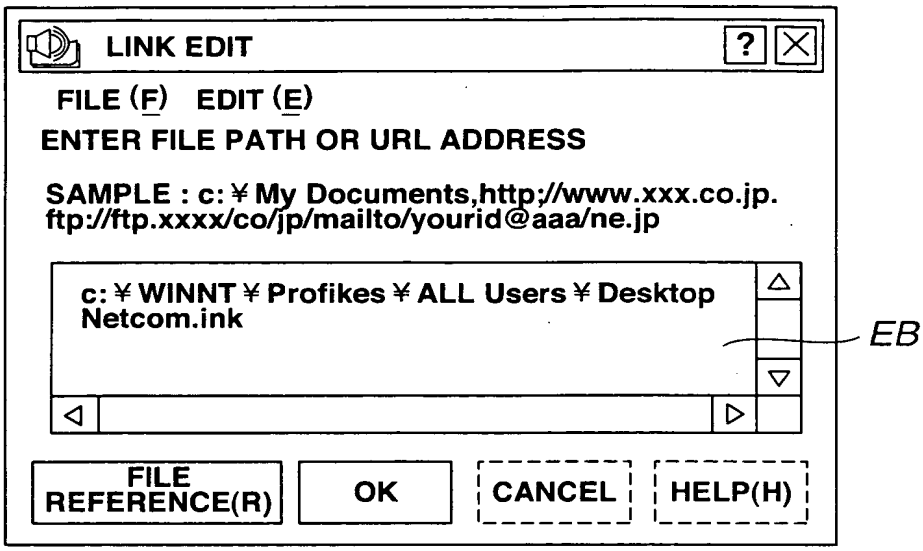

LINK EDIT
FILE (F) EDIT (E)
ENTER FILE PATH OR URL ADDRESS
SAMPLE : c: ¥ My Documents,http://www.xxx.co.jp.
ftp://ftp.xxxx/co/jp/mailto/yourid@aaa/ne.jp
c: ¥ WINNT ¥ Profikes ¥ ALL Users ¥ Desktop
Netcom.ink
EB
FILE REFERENCE(R)
OK
CANCEL
HELP(H)

FIG.53

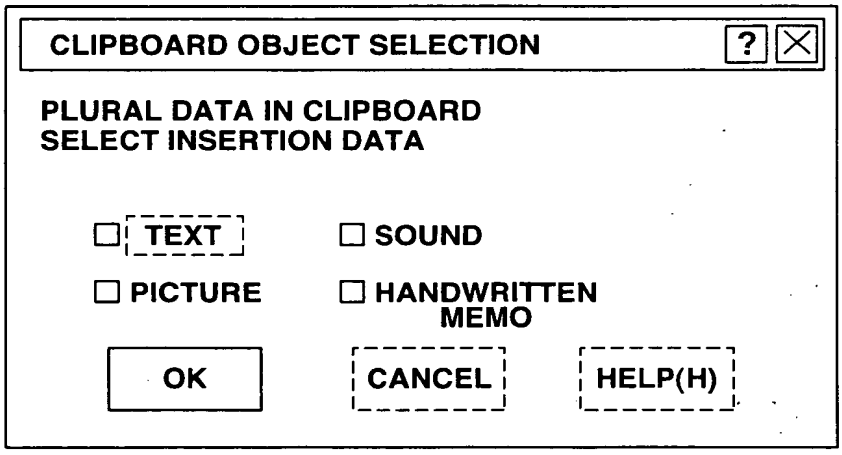

CLIPBOARD OBJECT SELECTION
PLURAL DATA IN CLIPBOARD
SELECT INSERTION DATA
TEXT
SOUND
PICTURE
HANDWRITTEN MEMO
OK
CANCEL
HELP(H)

FIG.54

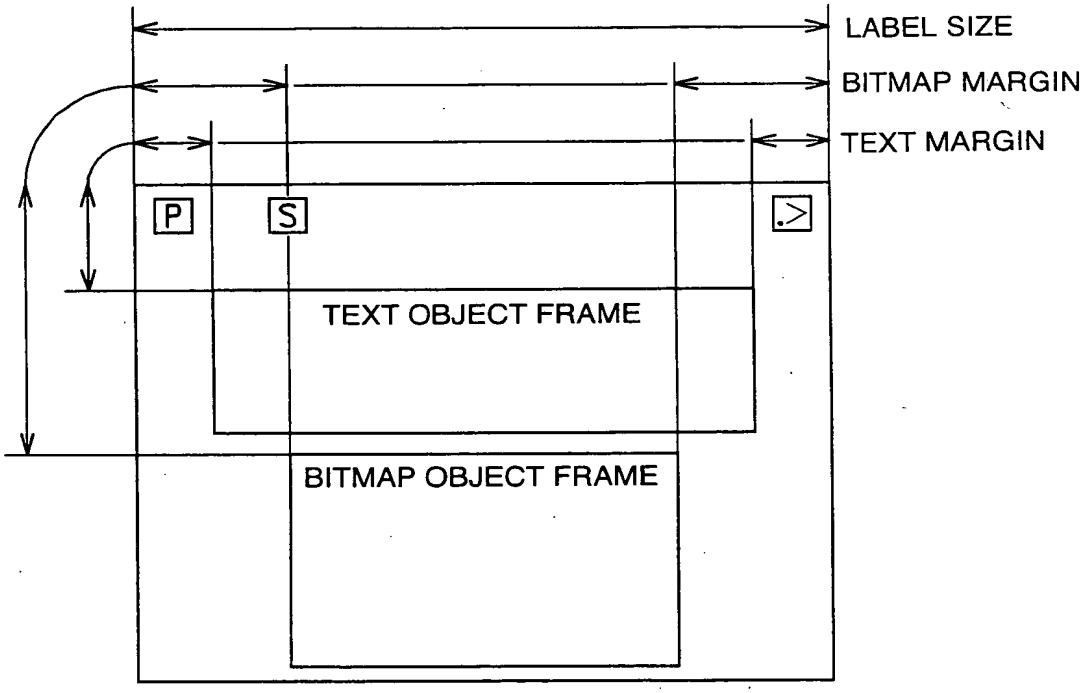

LABEL SIZE
BITMAP MARGIN
TEXT MARGIN
P
S
TEXT OBJECT FRAME
BITMAP OBJECT FRAME

FIG.55

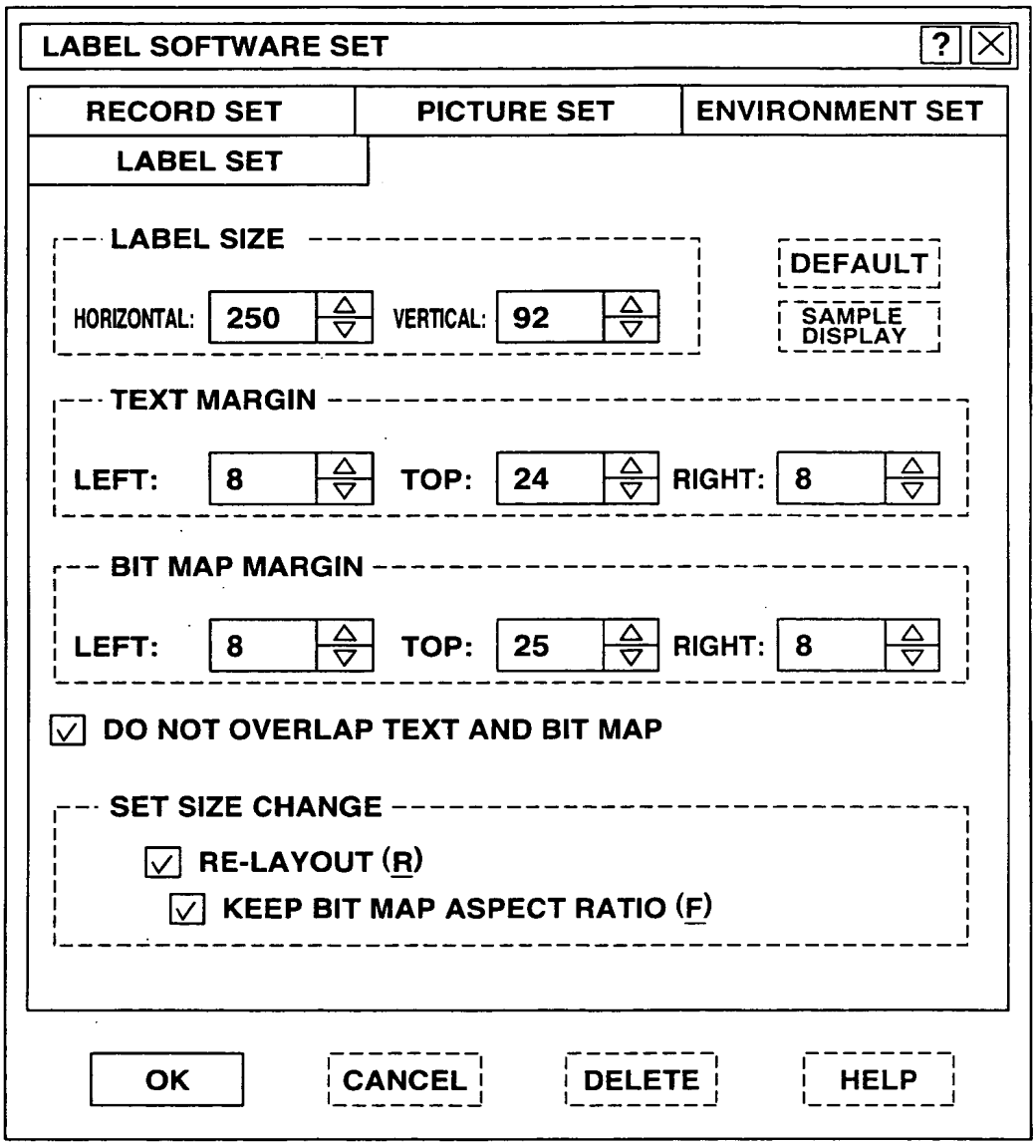

LABEL SOFTWARE SET
?
RECORD SET
PICTURE SET
ENVIRONMENT SET
LABEL SET
LABEL SIZE
HORIZONTAL: 250
VERTICAL: 92
DEFAULT
SAMPLE DISPLAY
TEXT MARGIN
LEFT: 8
TOP: 24
RIGHT: 8
BIT MAP MARGIN
LEFT: 8
TOP: 25
RIGHT: 8
DO NOT OVERLAP TEXT AND BIT MAP
SET SIZE CHANGE
RE-LAYOUT (R)
KEEP BIT MAP ASPECT RATIO (F)
OK
CANCEL
DELETE
HELP

FIG.56

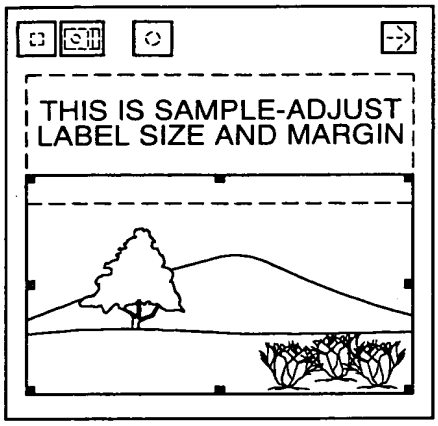

THIS IS SAMPLE-ADJUST
LABEL SIZE AND MARGIN

FIG.57

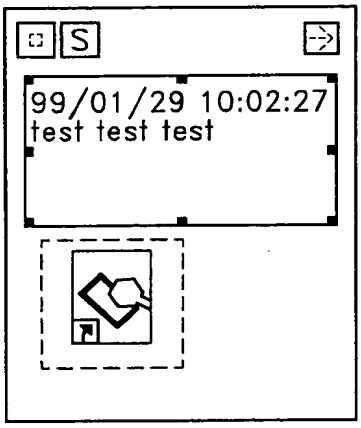

S
99/01/29 10:02:27
test test test

FIG.58

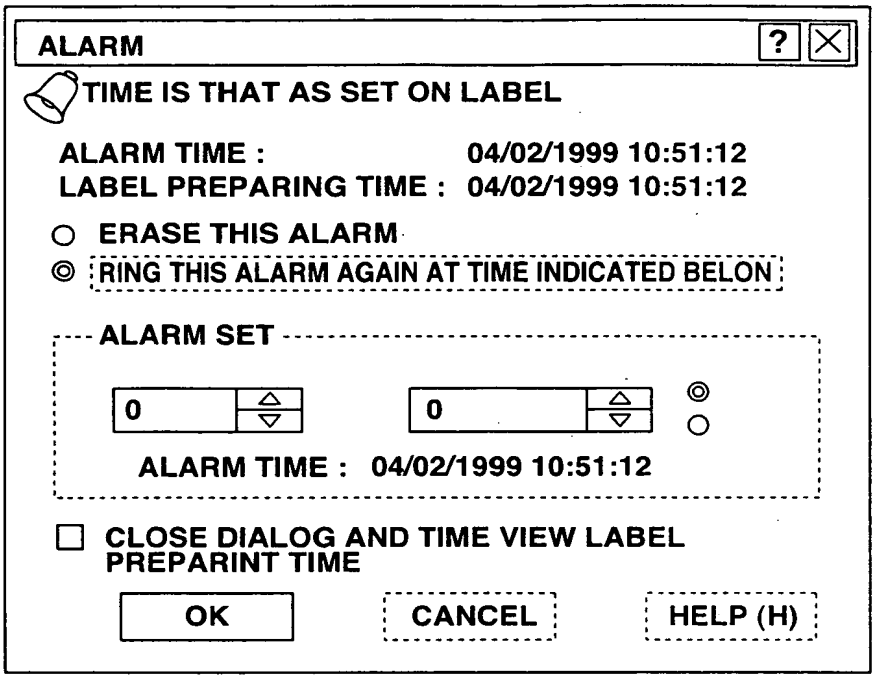

ALARM
TIME IS THAT AS SET ON LABEL
ALARM TIME : 04/02/1999 10:51:12
LABEL PREPARING TIME : 04/02/1999 10:51:12
ERASE THIS ALARM
RING THIS ALARM AGAIN AT TIME INDICATED BELON
ALARM SET
0
0
ALARM TIME : 04/02/1999 10:51:12
CLOSE DIALOG AND TIME VIEW LABEL PREPARINT TIME
OK
CANCEL
HELP (H)

FIG.59

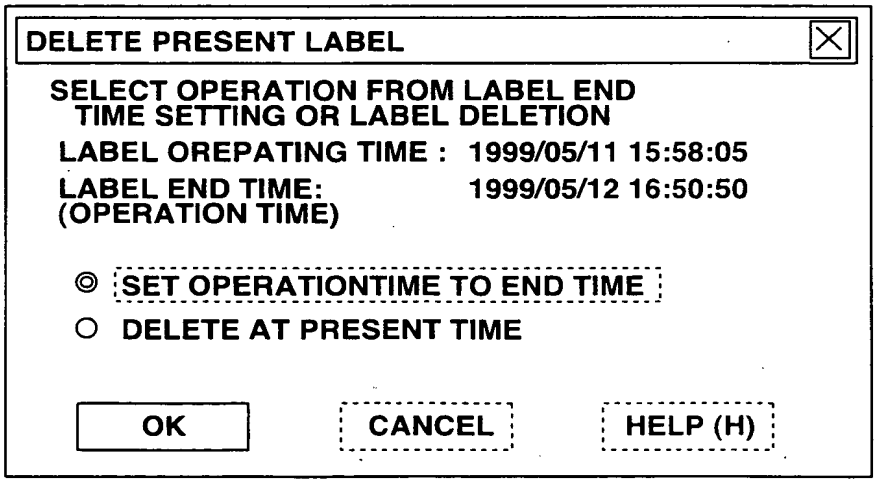

DELETE PRESENT LABEL
SELECT OPERATION FROM LABEL END TIME SETTING OR LABEL DELETION
LABEL OREPATING TIME : 1999/05/11 15:58:05
LABEL END TIME: (OPERATION TIME) 1999/05/12 16:50:50
SET OPERATIONTIME TO END TIME
DELETE AT PRESENT TIME
OK
CANCEL
HELP (H)

FIG.60

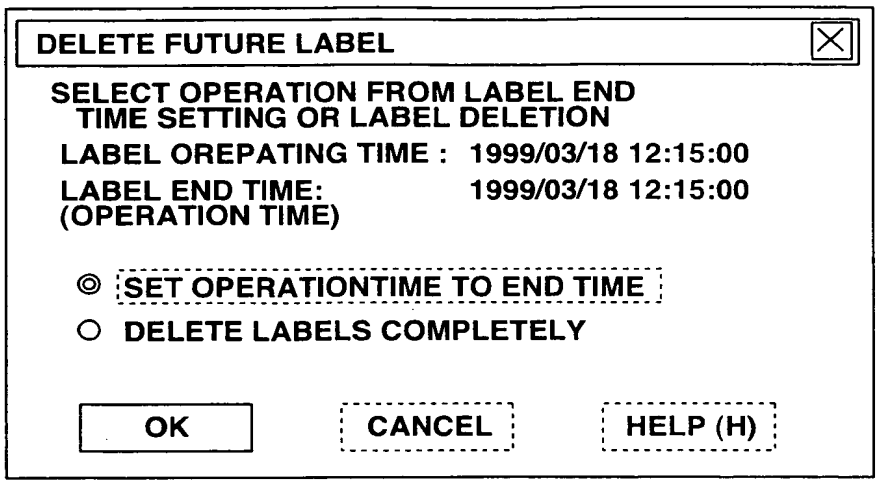

DELETE FUTURE LABEL
SELECT OPERATION FROM LABEL END TIME SETTING OR LABEL DELETION
LABEL OREPATING TIME : 1999/03/18 12:15:00
LABEL END TIME: (OPERATION TIME) 1999/03/18 12:15:00
SET OPERATIONTIME TO END TIME
DELETE LABELS COMPLETELY
OK
CANCEL
HELP (H)

FIG.61

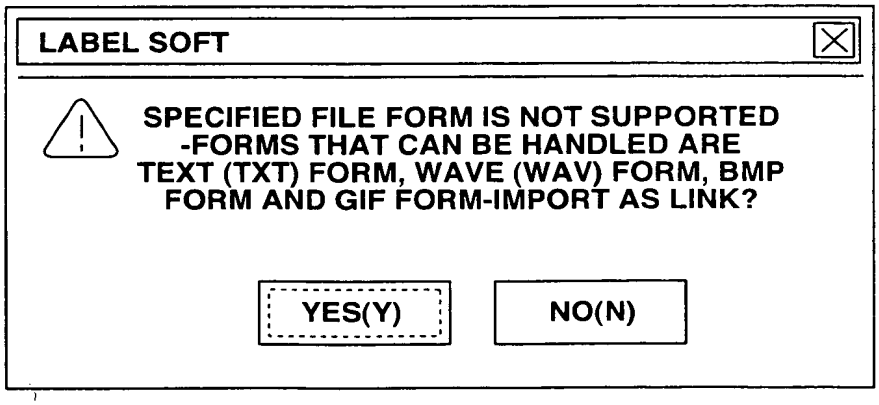

LABEL SOFT
SPECIFIED FILE FORM IS NOT SUPPORTED -FORMS THAT CAN BE HANDLED ARE TEXT (TXT) FORM, WAVE (WAV) FORM, BMP FORM AND GIF FORM-IMPORT AS LINK?
YES(Y)
NO(N)

FIG.62

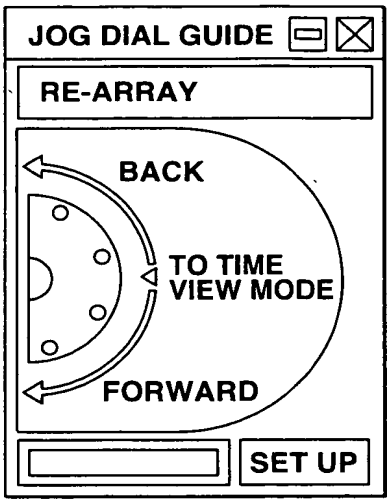

JOG DIAL GUIDE
RE-ARRAY
BACK
TO TIME
VIEW MODE
FORWARD
SET UP

FIG.63

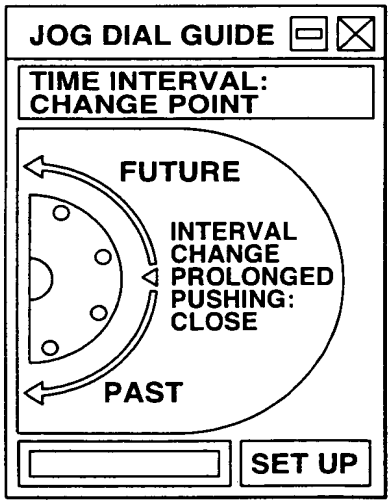

JOG DIAL GUIDE
TIME INTERVAL:
CHANGE POINT
FUTURE
INTERVAL
CHANGE
PROLONGED
PUSHING:
CLOSE
PAST
SET UP

FIG.64

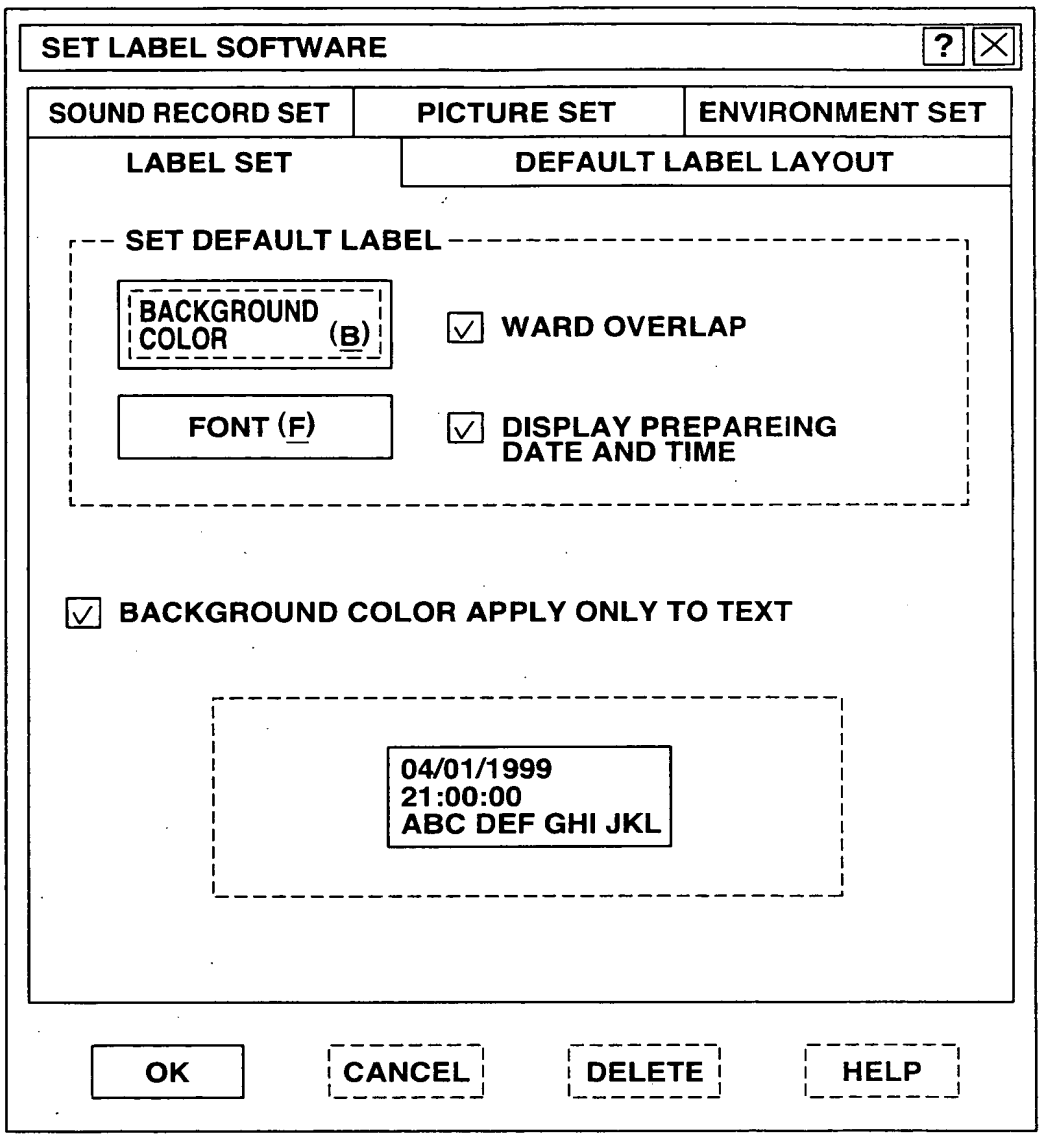

SET LABEL SOFTWARE
?
SOUND RECORD SET
PICTURE SET
ENVIRONMENT SET
LABEL SET
DEFAULT LABEL LAYOUT
SET DEFAULT LABEL
BACKGROUND COLOR (B)
WARD OVERLAP
FONT (F)
DISPLAY PREPAREING DATE AND TIME
BACKGROUND COLOR APPLY ONLY TO TEXT
04/01/1999
21:00:00
ABC DEF GHI JKL
OK
CANCEL
DELETE
HELP

FIG.65

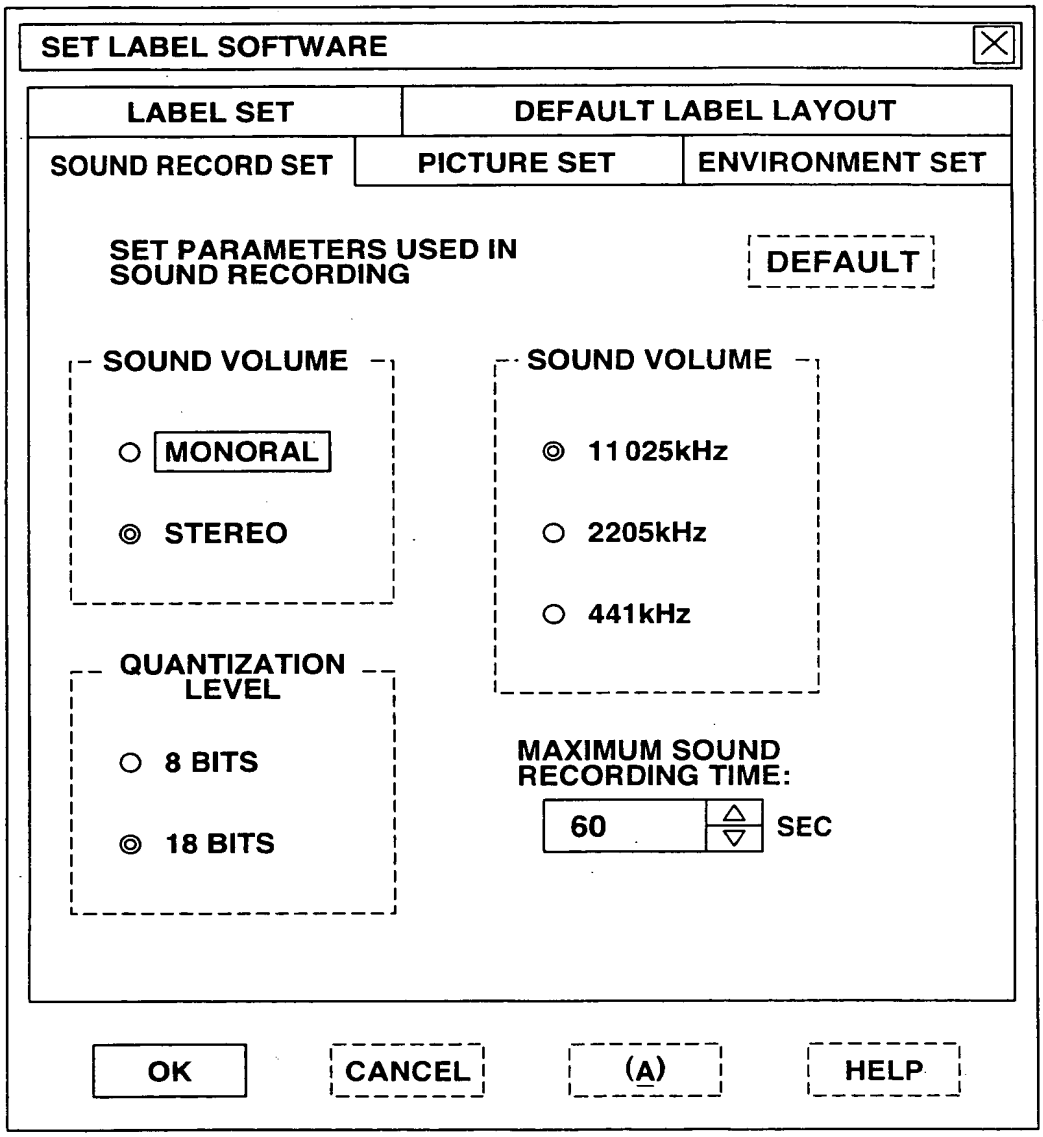

SET LABEL SOFTWARE
LABEL SET
DEFAULT LABEL LAYOUT
SOUND RECORD SET
PICTURE SET
ENVIRONMENT SET
SET PARAMETERS USED IN SOUND RECORDING
DEFAULT
SOUND VOLUME
MONORAL
STEREO
SOUND VOLUME
11025kHz
2205kHz
441kHz
QUANTIZATION LEVEL
8 BITS
18 BITS
MAXIMUM SOUND RECORDING TIME:
60
SEC
OK
CANCEL
(A)
HELP

FIG.66

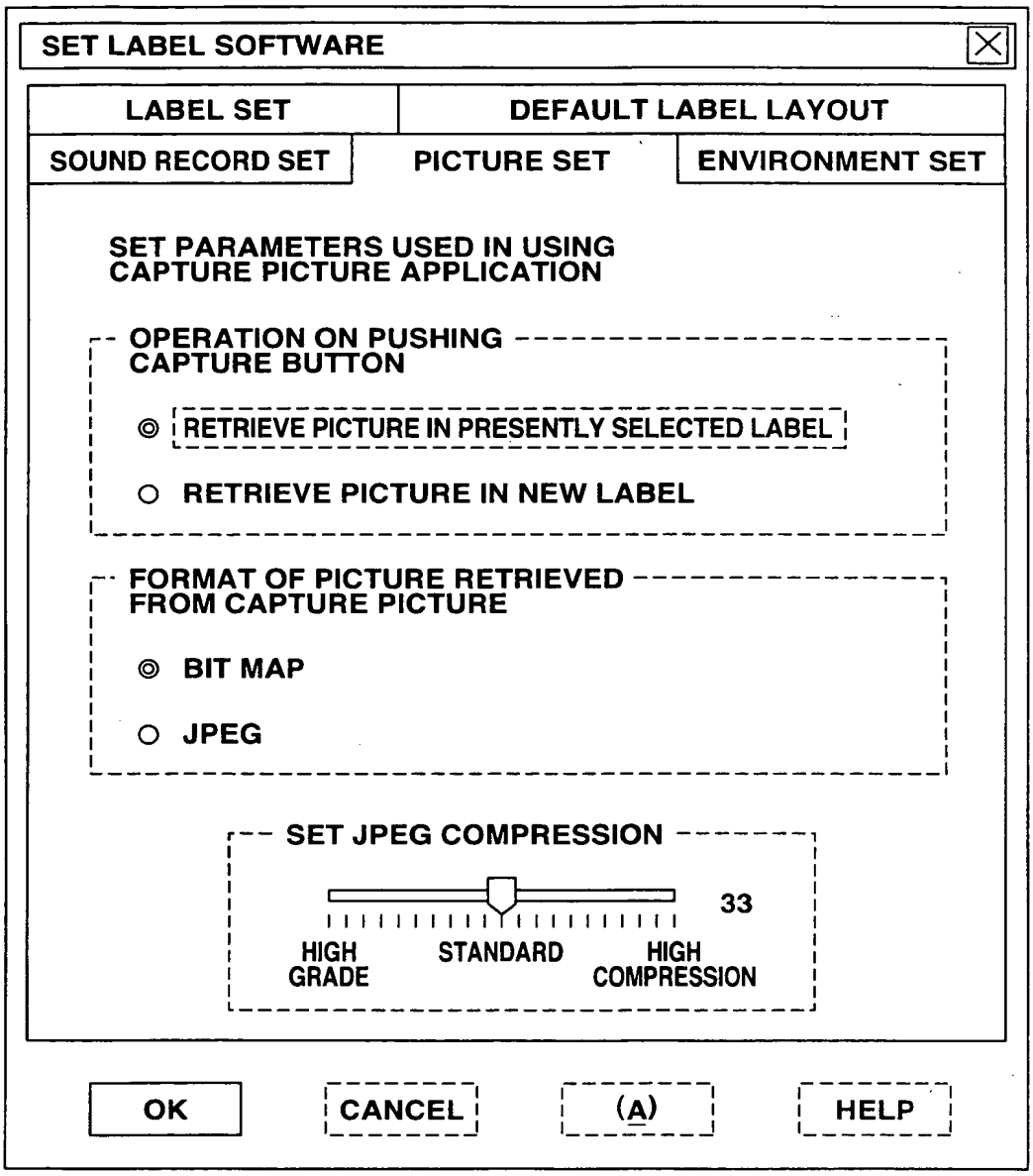

SET LABEL SOFTWARE
LABEL SET
DEFAULT LABEL LAYOUT
SOUND RECORD SET
PICTURE SET
ENVIRONMENT SET
SET PARAMETERS USED IN USING CAPTURE PICTURE APPLICATION
OPERATION ON PUSHING CAPTURE BUTTON
RETRIEVE PICTURE IN PRESENTLY SELECTED LABEL
RETRIEVE PICTURE IN NEW LABEL
FORMAT OF PICTURE RETRIEVED FROM CAPTURE PICTURE
BIT MAP
JPEG
SET JPEG COMPRESSION
33
HIGH GRADE
STANDARD
HIGH COMPRESSION
OK
CANCEL
(A)
HELP

FIG.67

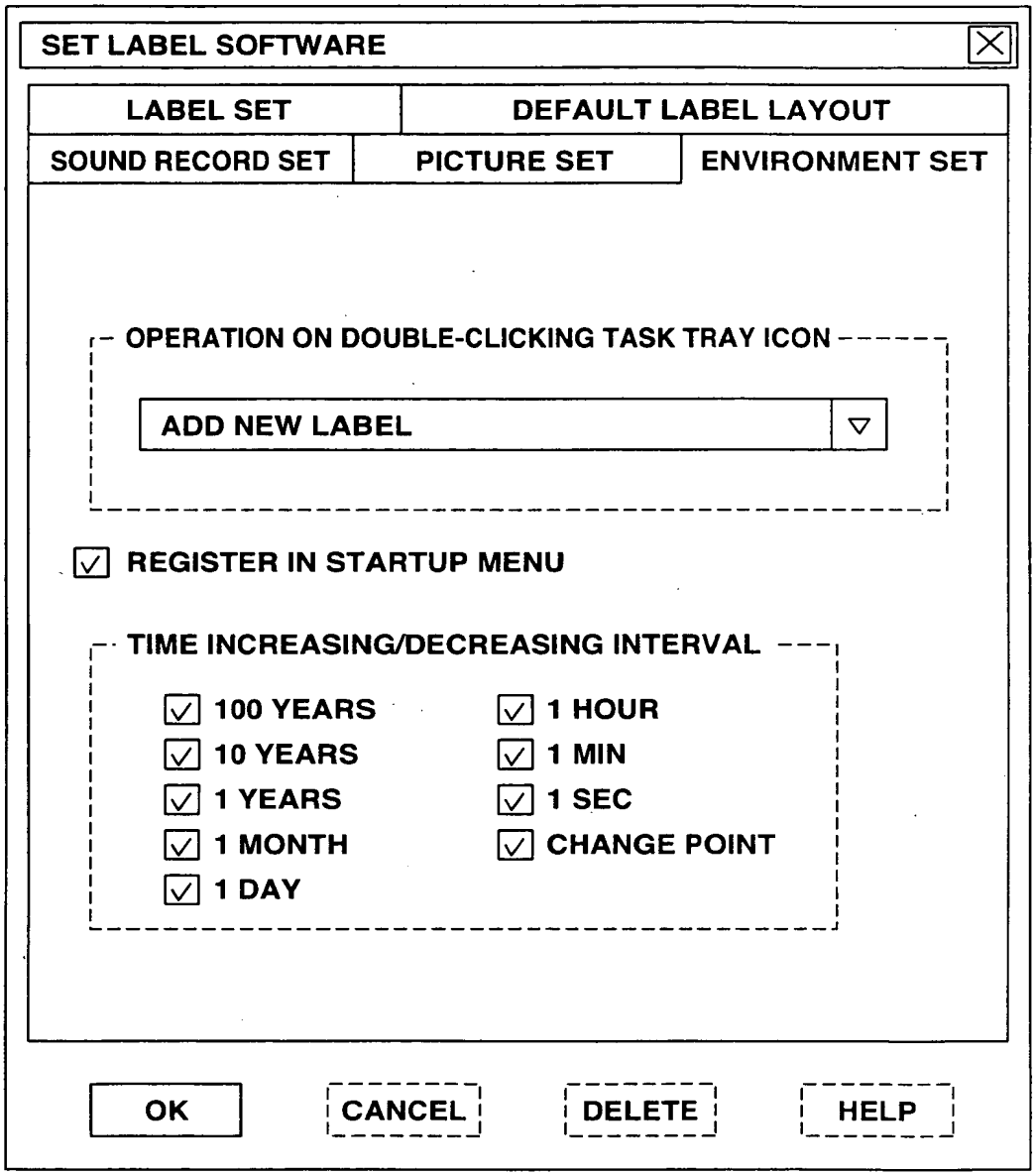

SET LABEL SOFTWARE
LABEL SET
DEFAULT LABEL LAYOUT
SOUND RECORD SET
PICTURE SET
ENVIRONMENT SET
OPERATION ON DOUBLE-CLICKING TASK TRAY ICON
ADD NEW LABEL
REGISTER IN STARTUP MENU
TIME INCREASING/DECREASING INTERVAL
100 YEARS
10 YEARS
1 YEARS
1 MONTH
1 DAY
1 HOUR
1 MIN
1 SEC
CHANGE POINT
OK
CANCEL
DELETE
HELP

FIG.68

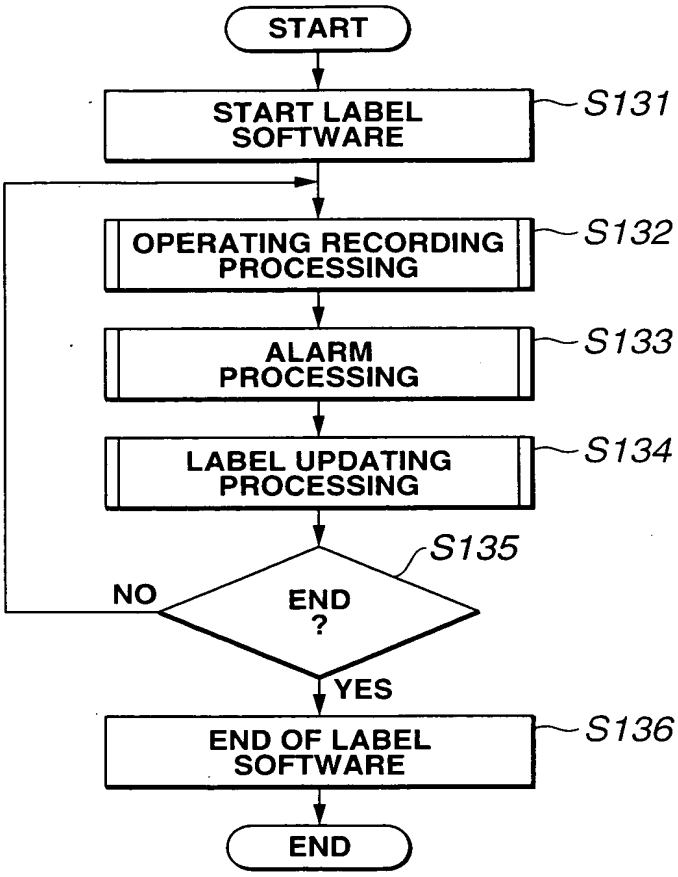

START
START LABEL SOFTWARE
S131
OPERATING RECORDING PROCESSING
S132
ALARM PROCESSING
S133
LABEL UPDATING PROCESSING
S134
S135
NO
END ?
YES
END OF LABEL SOFTWARE
S136
END

FIG.69

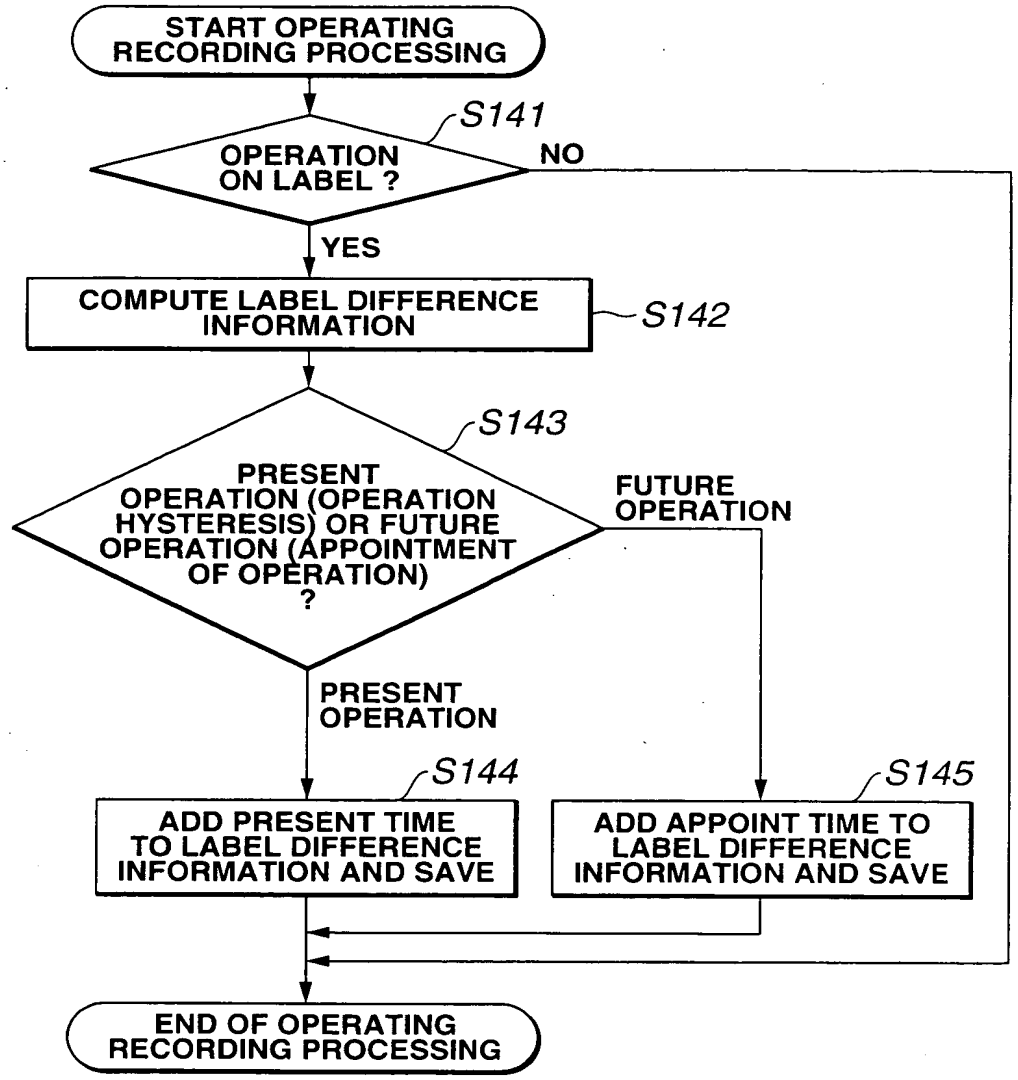

START OPERATING RECORDING PROCESSING
S141
OPERATION ON LABEL ?
NO
YES
COMPUTE LABEL DIFFERENCE INFORMATION
S142
S143
PRESENT OPERATION (OPERATION HYSTERESIS) OR FUTURE OPERATION (APPOINTMENT OF OPERATION) ?
FUTURE OPERATION
PRESENT OPERATION
S144
ADD PRESENT TIME TO LABEL DIFFERENCE INFORMATION AND SAVE
S145
ADD APPOINT TIME TO LABEL DIFFERENCE INFORMATION AND SAVE
END OF OPERATING RECORDING PROCESSING

FIG.70

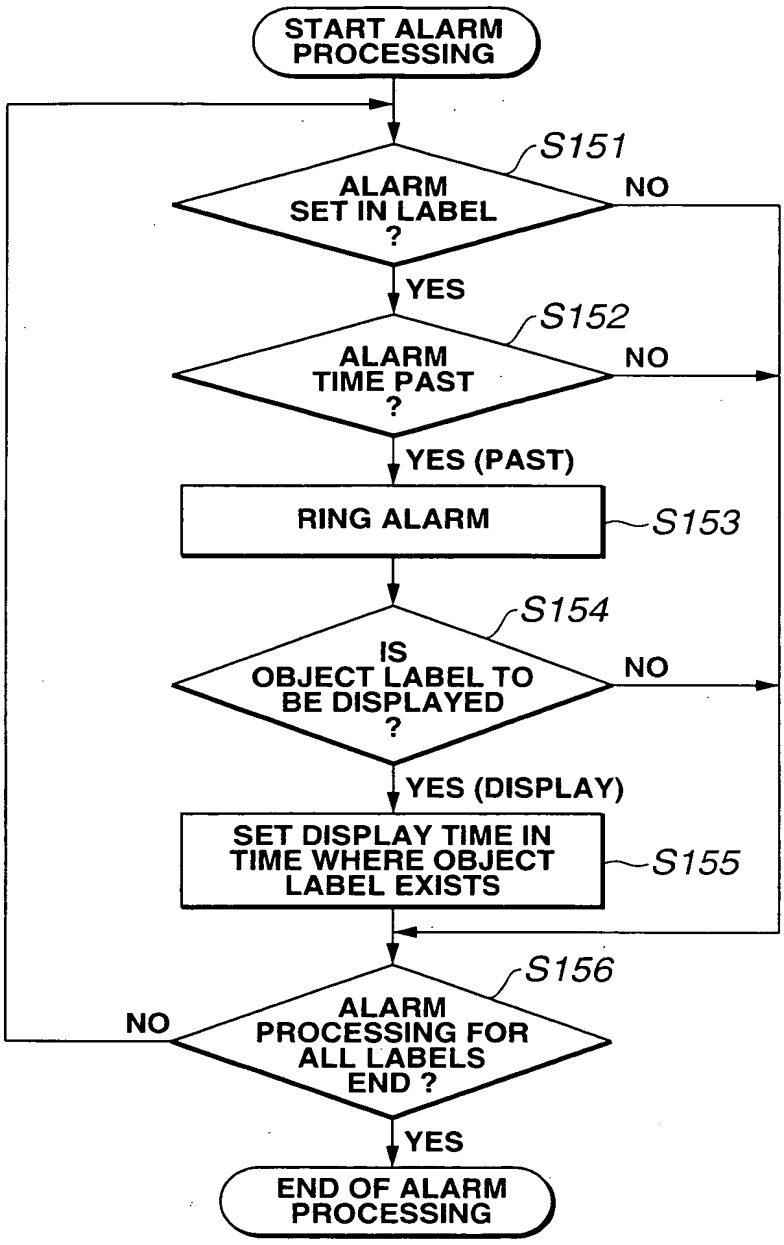

START ALARM PROCESSING
S151
ALARM SET IN LABEL ?
NO
YES
S152
ALARM TIME PAST ?
NO
YES (PAST)
RING ALARM
S153
S154
IS OBJECT LABEL TO BE DISPLAYED ?
NO
YES (DISPLAY)
SET DISPLAY TIME IN TIME WHERE OBJECT LABEL EXISTS
S155
S156
ALARM PROCESSING FOR ALL LABELS END ?
NO
YES
END OF ALARM PROCESSING

FIG.71

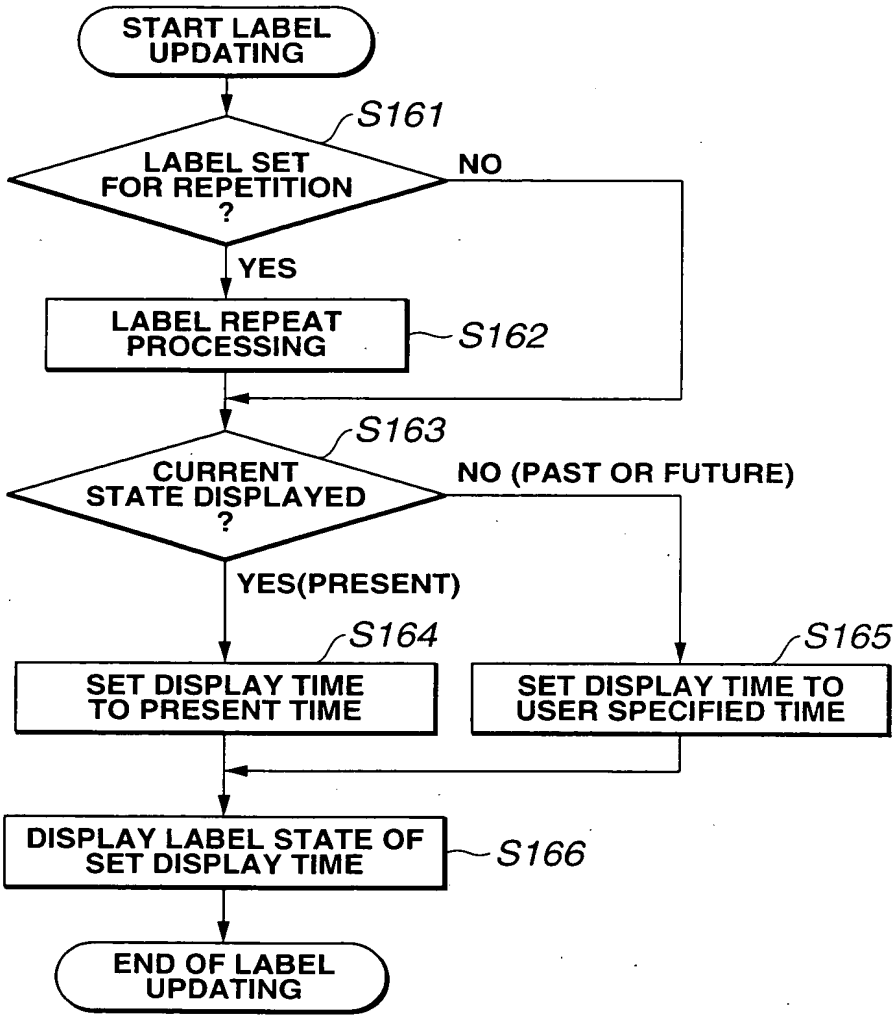

START LABEL UPDATING
S161
LABEL SET FOR REPETITION ?
NO
YES
LABEL REPEAT PROCESSING
S162
S163
CURRENT STATE DISPLAYED ?
NO (PAST OR FUTURE)
YES(PRESENT)
S164
SET DISPLAY TIME TO PRESENT TIME
S165
SET DISPLAY TIME TO USER SPECIFIED TIME
DISPLAY LABEL STATE OF SET DISPLAY TIME
S166
END OF LABEL UPDATING

FIG.72

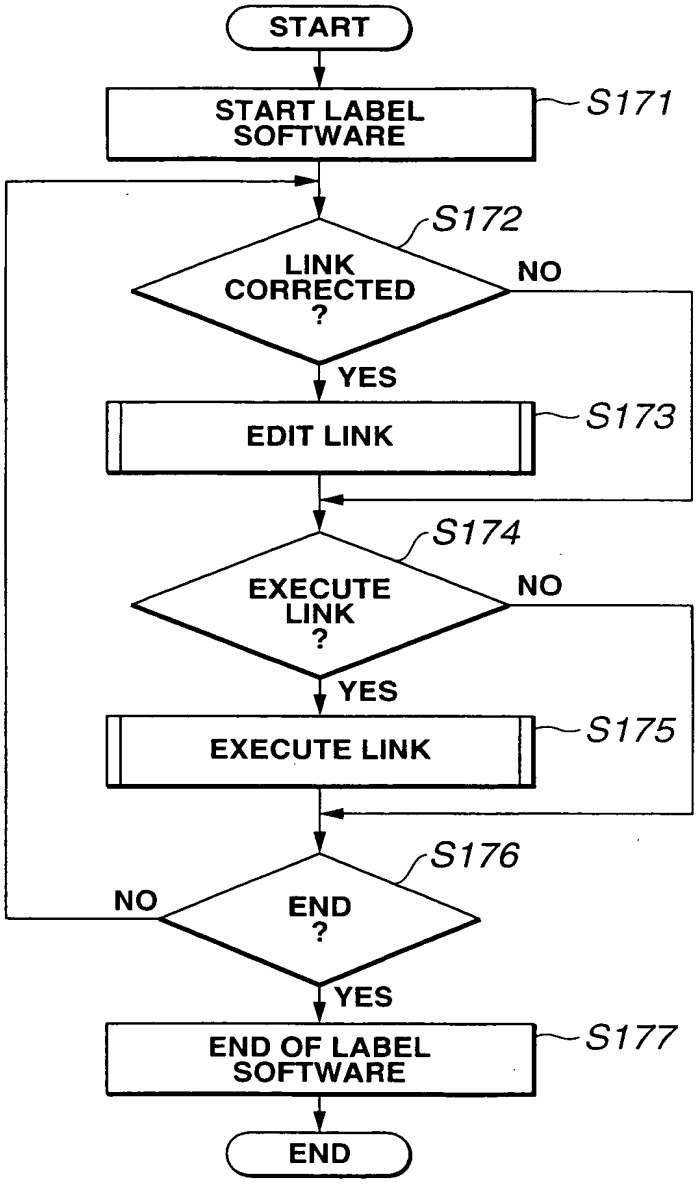

START
START LABEL SOFTWARE
S171
S172
LINK CORRECTED ?
NO
YES
EDIT LINK
S173
S174
EXECUTE LINK ?
NO
YES
EXECUTE LINK
S175
S176
NO
END ?
YES
END OF LABEL SOFTWARE
S177
END

FIG.73

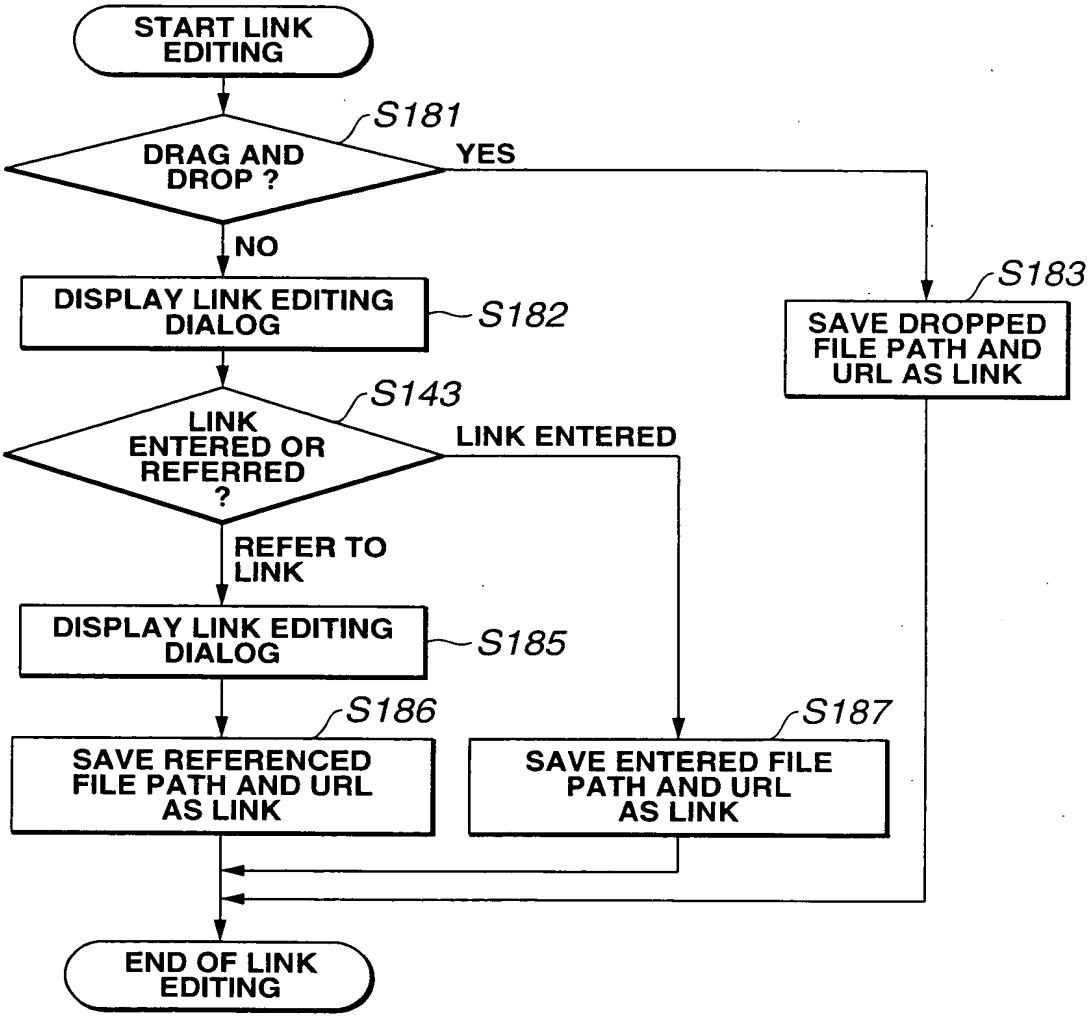

START LINK EDITING
S181
DRAG AND DROP ?
YES
NO
DISPLAY LINK EDITING DIALOG
S182
S183
SAVE DROPPED FILE PATH AND URL AS LINK
S143
LINK ENTERED OR REFERRED ?
LINK ENTERED
REFER TO LINK
DISPLAY LINK EDITING DIALOG
S185
S186
SAVE REFERENCED FILE PATH AND URL AS LINK
S187
SAVE ENTERED FILE PATH AND URL AS LINK
END OF LINK EDITING

FIG.74

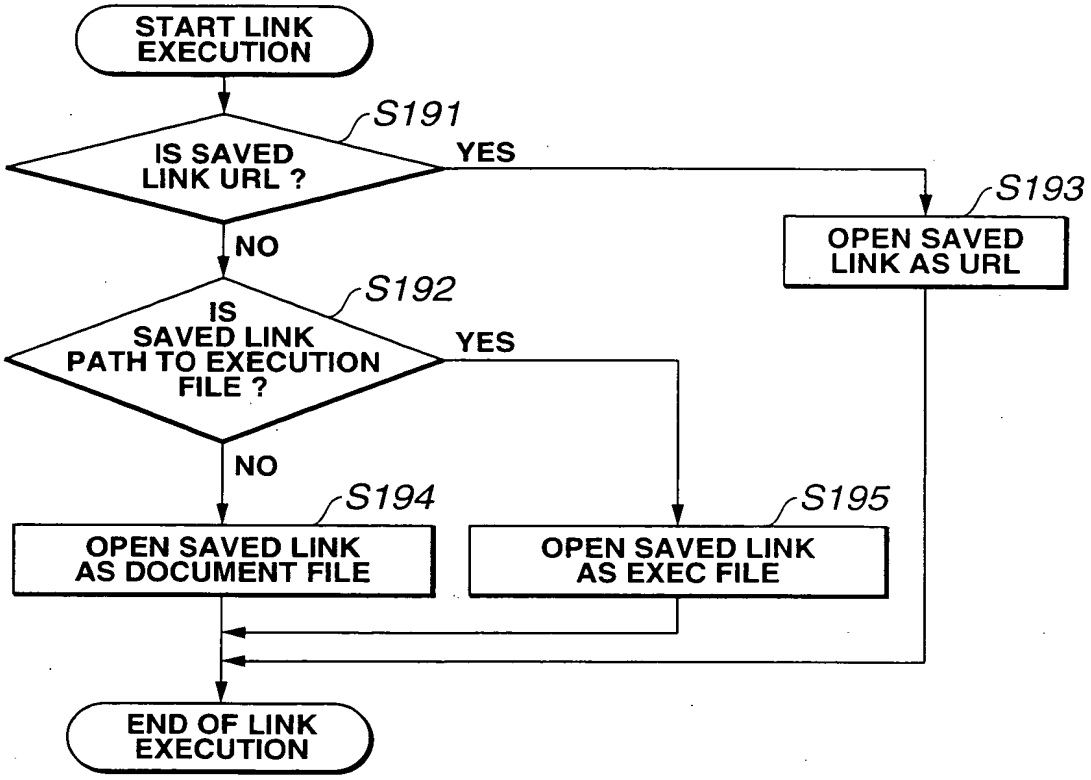

START LINK EXECUTION
S191
IS SAVED LINK URL ?
YES
S193
OPEN SAVED LINK AS URL
NO
S192
IS SAVED LINK PATH TO EXECUTION FILE ?
YES
NO
S194
OPEN SAVED LINK AS DOCUMENT FILE
S195
OPEN SAVED LINK AS EXEC FILE
END OF LINK EXECUTION

FIG.75

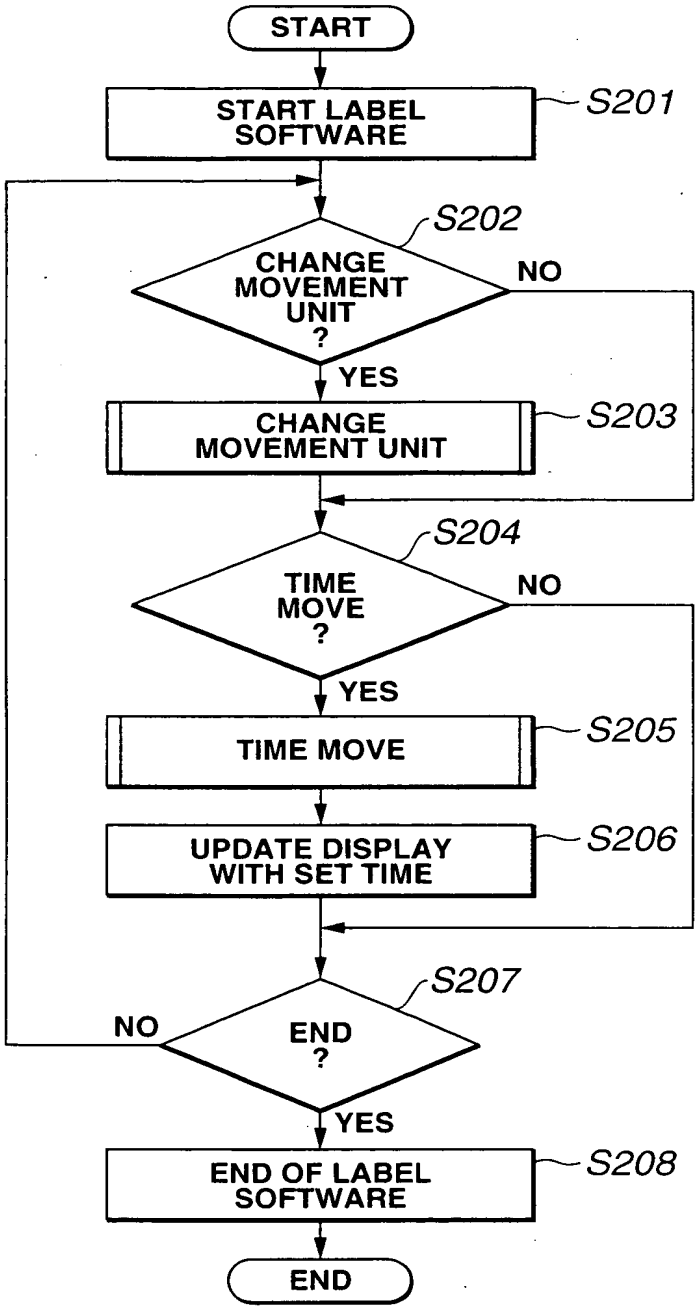

START
START LABEL SOFTWARE
S201
S202
CHANGE MOVEMENT UNIT ?
NO
YES
CHANGE MOVEMENT UNIT
S203
S204
TIME MOVE ?
NO
YES
TIME MOVE
S205
UPDATE DISPLAY WITH SET TIME
S206
S207
END ?
NO
YES
END OF LABEL SOFTWARE
S208
END

FIG.76

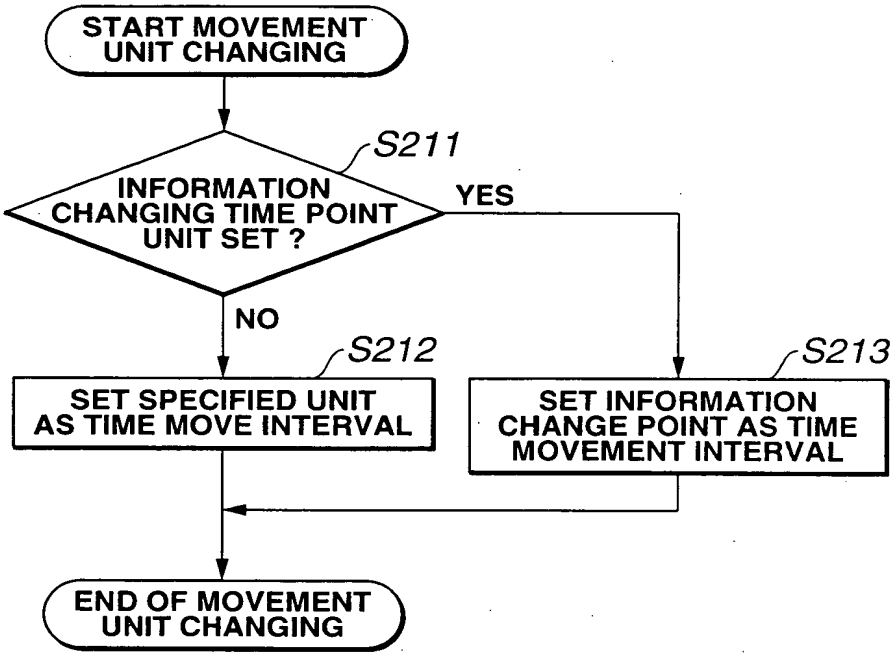

START MOVEMENT UNIT CHANGING
S211
INFORMATION CHANGING TIME POINT UNIT SET ?
YES
NO
S212
SET SPECIFIED UNIT AS TIME MOVE INTERVAL
S213
SET INFORMATION CHANGE POINT AS TIME MOVEMENT INTERVAL
END OF MOVEMENT UNIT CHANGING

FIG.77

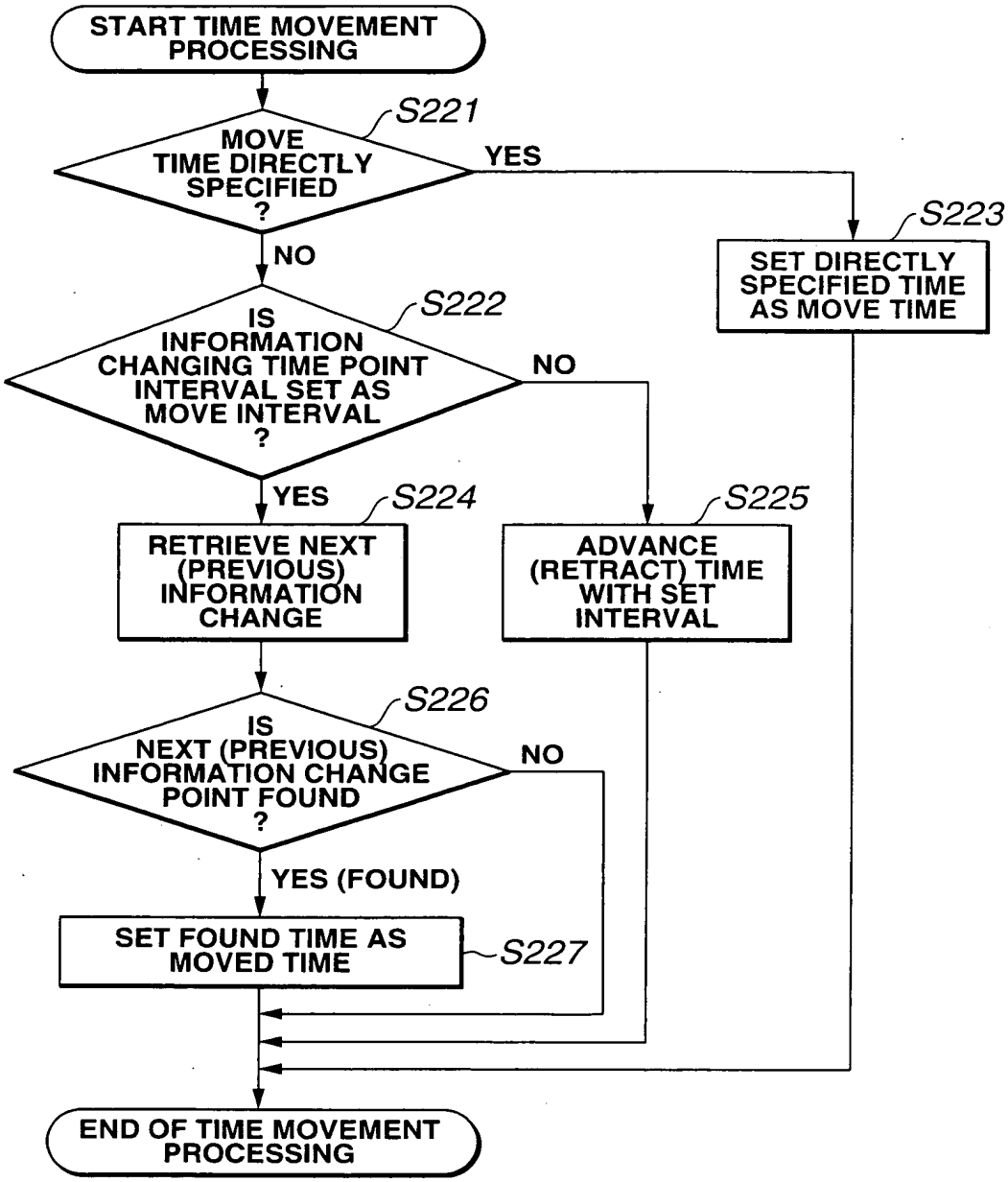

START TIME MOVEMENT PROCESSING
S221
MOVE TIME DIRECTLY SPECIFIED ?
YES
NO
S223
SET DIRECTLY SPECIFIED TIME AS MOVE TIME
S222
IS INFORMATION CHANGING TIME POINT INTERVAL SET AS MOVE INTERVAL ?
NO
YES
S224
RETRIEVE NEXT (PREVIOUS) INFORMATION CHANGE
S225
ADVANCE (RETRACT) TIME WITH SET INTERVAL
S226
IS NEXT (PREVIOUS) INFORMATION CHANGE POINT FOUND ?
NO
YES (FOUND)
SET FOUND TIME AS MOVED TIME
S227
END OF TIME MOVEMENT PROCESSING

FIG.78

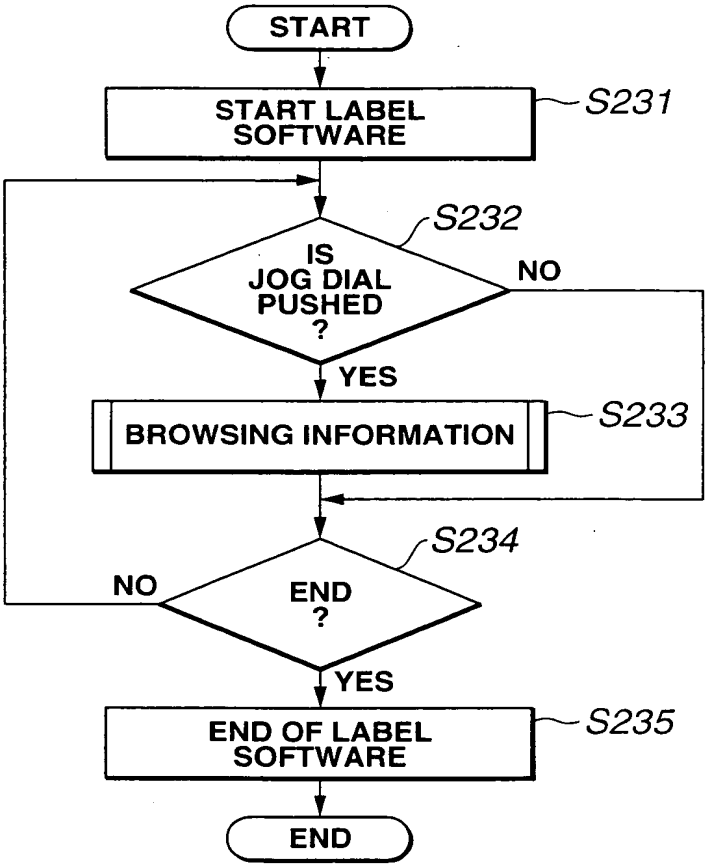

START
START LABEL SOFTWARE
S231
S232
IS JOG DIAL PUSHED ?
NO
YES
BROWSING INFORMATION
S233
S234
NO
END ?
YES
END OF LABEL SOFTWARE
S235
END

FIG.79

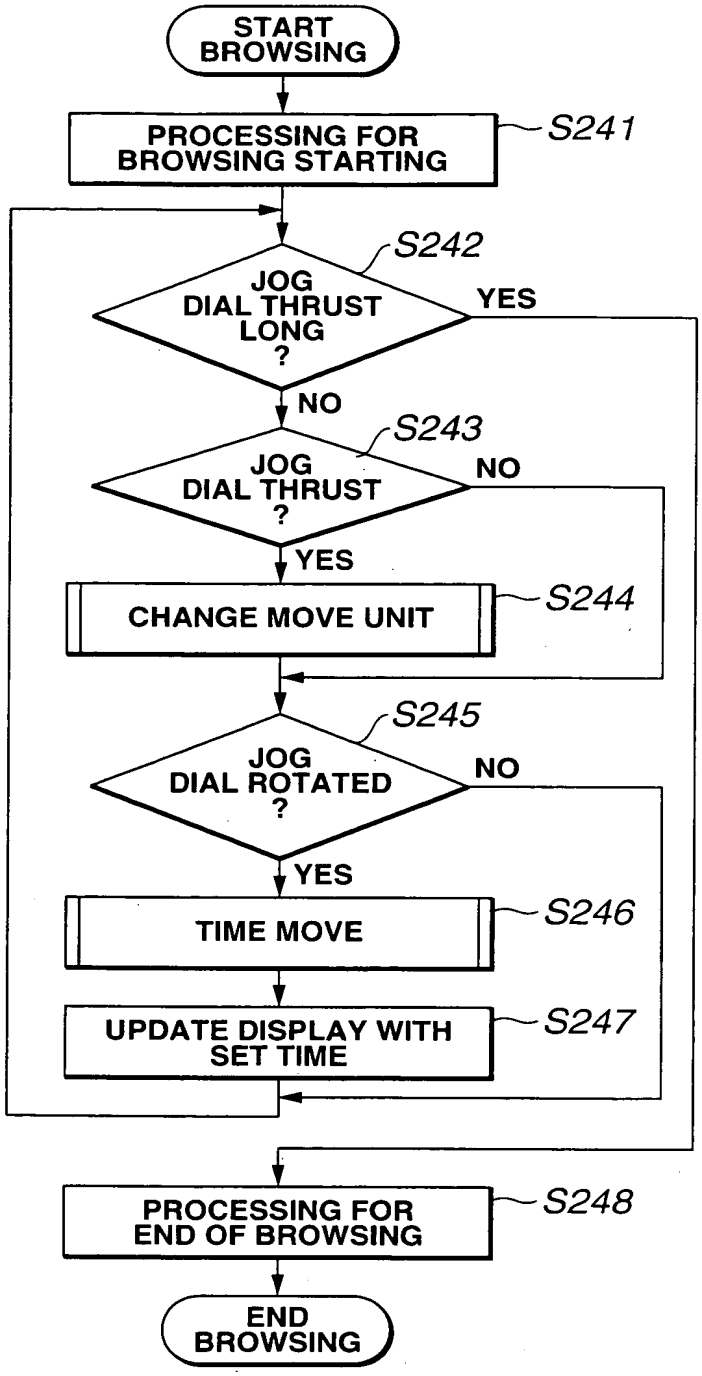

START BROWSING
PROCESSING FOR BROWSING STARTING
S241
S242
JOG DIAL THRUST LONG ?
YES
NO
S243
JOG DIAL THRUST ?
NO
YES
CHANGE MOVE UNIT
S244
S245
JOG DIAL ROTATED ?
NO
YES
TIME MOVE
S246
UPDATE DISPLAY WITH SET TIME
S247
PROCESSING FOR END OF BROWSING
S248
END BROWSING

FIG.80

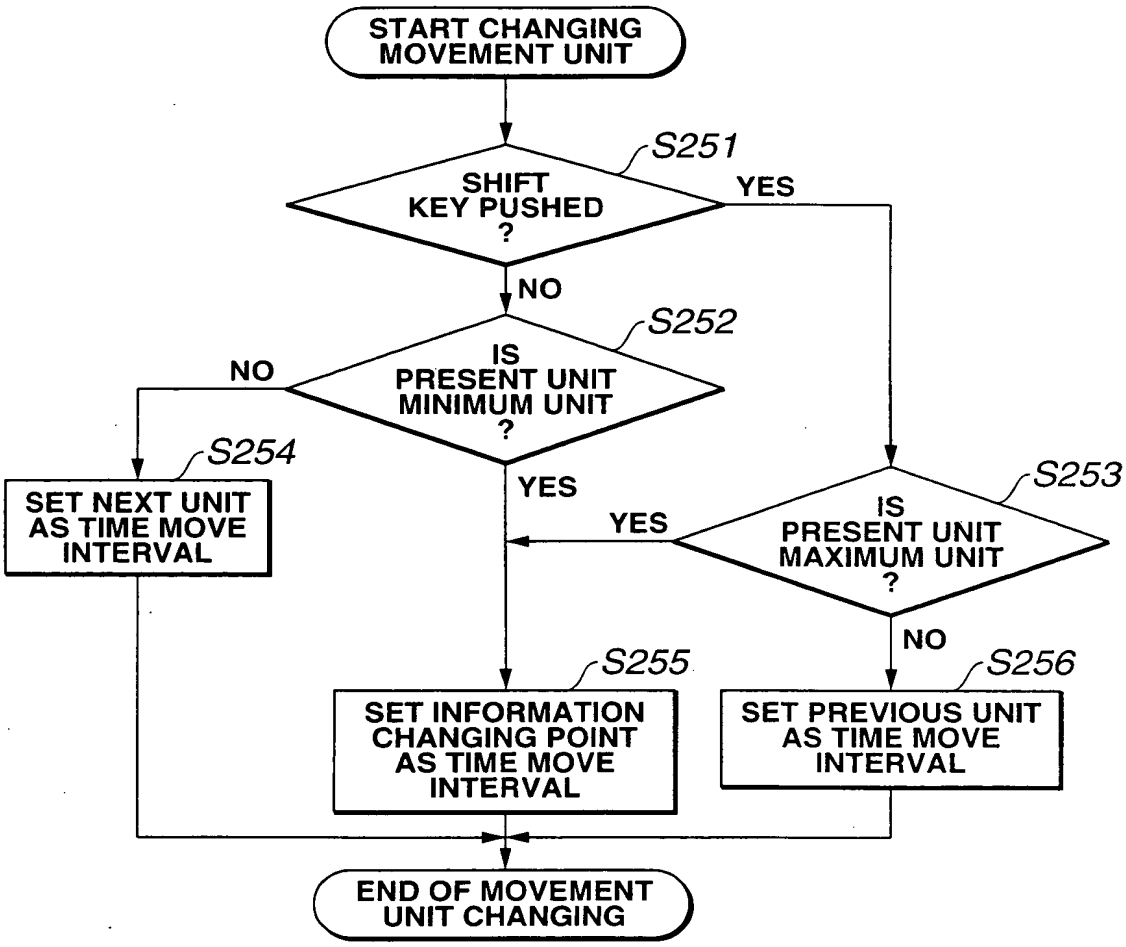

START CHANGING MOVEMENT UNIT
S251
SHIFT KEY PUSHED ?
YES
NO
S252
IS PRESENT UNIT MINIMUM UNIT ?
NO
S254
SET NEXT UNIT AS TIME MOVE INTERVAL
YES
S253
IS PRESENT UNIT MAXIMUM UNIT ?
YES
NO
S255
SET INFORMATION CHANGING POINT AS TIME MOVE INTERVAL
S256
SET PREVIOUS UNIT AS TIME MOVE INTERVAL
END OF MOVEMENT UNIT CHANGING

FIG.81

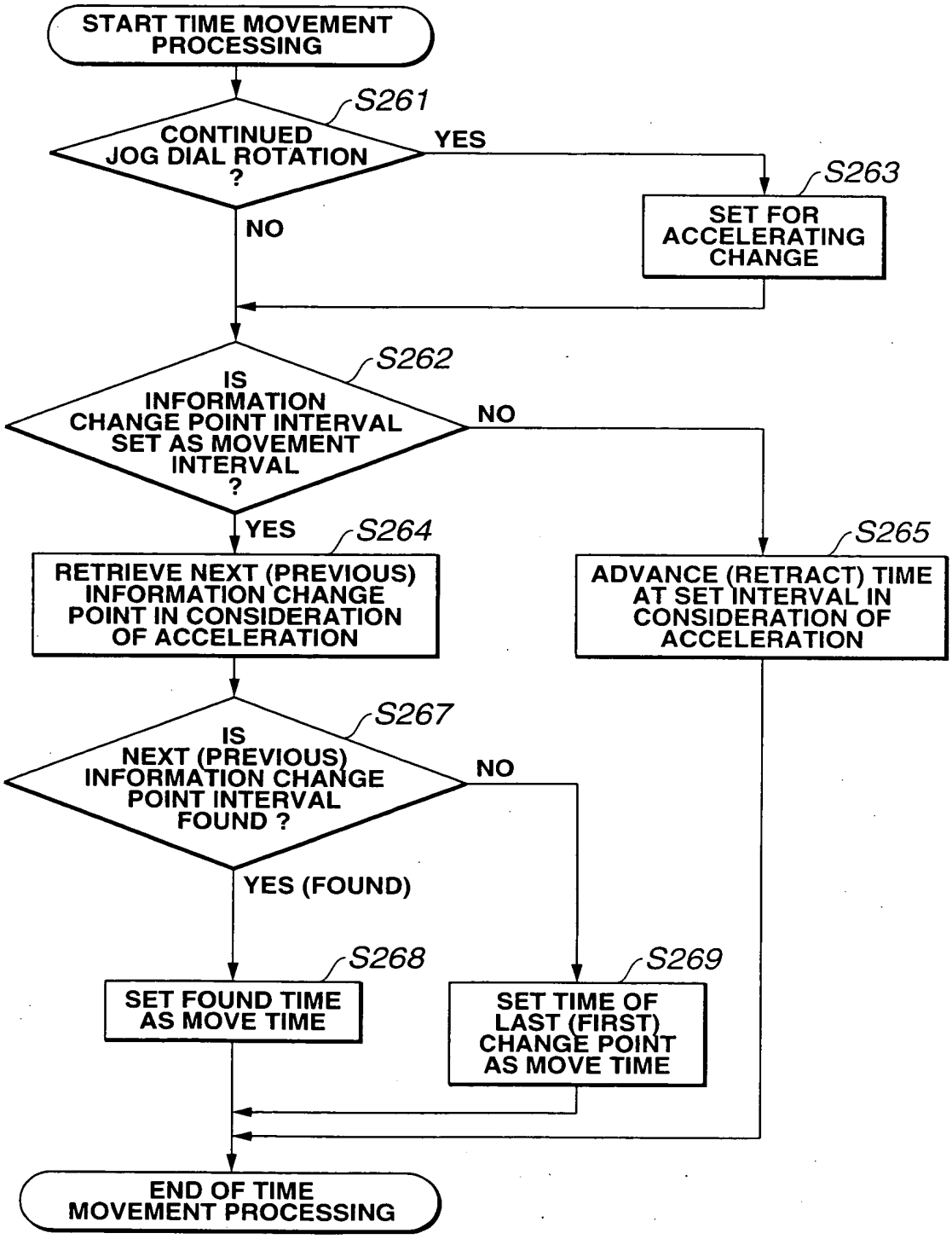

START TIME MOVEMENT PROCESSING
S261
CONTINUED JOG DIAL ROTATION ?
YES
NO
S263
SET FOR ACCELERATING CHANGE
S262
IS INFORMATION CHANGE POINT INTERVAL SET AS MOVEMENT INTERVAL ?
NO
YES
S264
RETRIEVE NEXT (PREVIOUS) INFORMATION CHANGE POINT IN CONSIDERATION OF ACCELERATION
S265
ADVANCE (RETRACT) TIME AT SET INTERVAL IN CONSIDERATION OF ACCELERATION
S267
IS NEXT (PREVIOUS) INFORMATION CHANGE POINT INTERVAL FOUND ?
NO
YES (FOUND)
S268
SET FOUND TIME AS MOVE TIME
S269
SET TIME OF LAST (FIRST) CHANGE POINT AS MOVE TIME
END OF TIME MOVEMENT PROCESSING

FIG.82

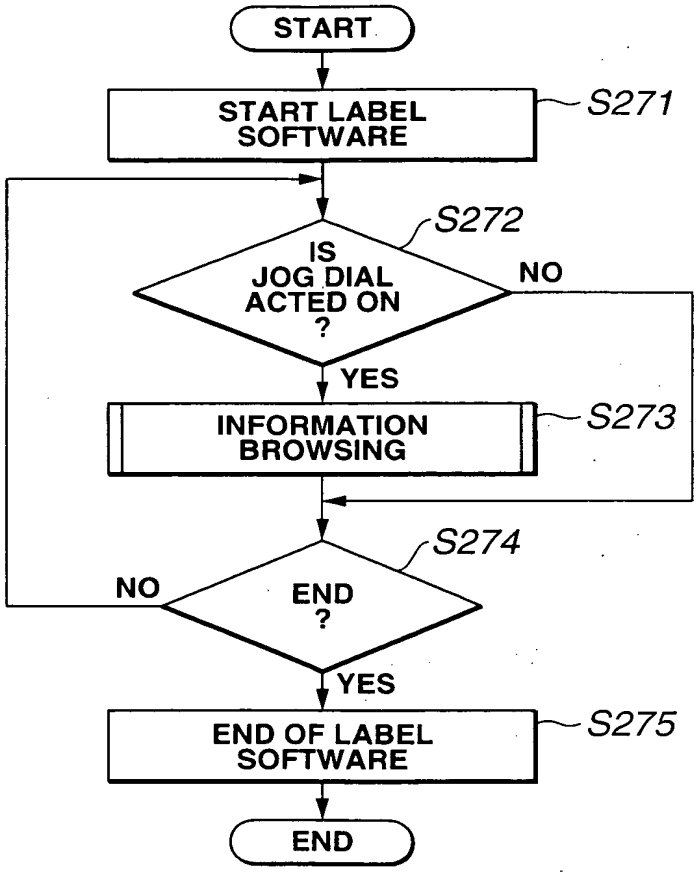

START
START LABEL SOFTWARE
S271
S272
IS JOG DIAL ACTED ON ?
NO
YES
INFORMATION BROWSING
S273
S274
NO
END ?
YES
END OF LABEL SOFTWARE
S275
END

FIG.83

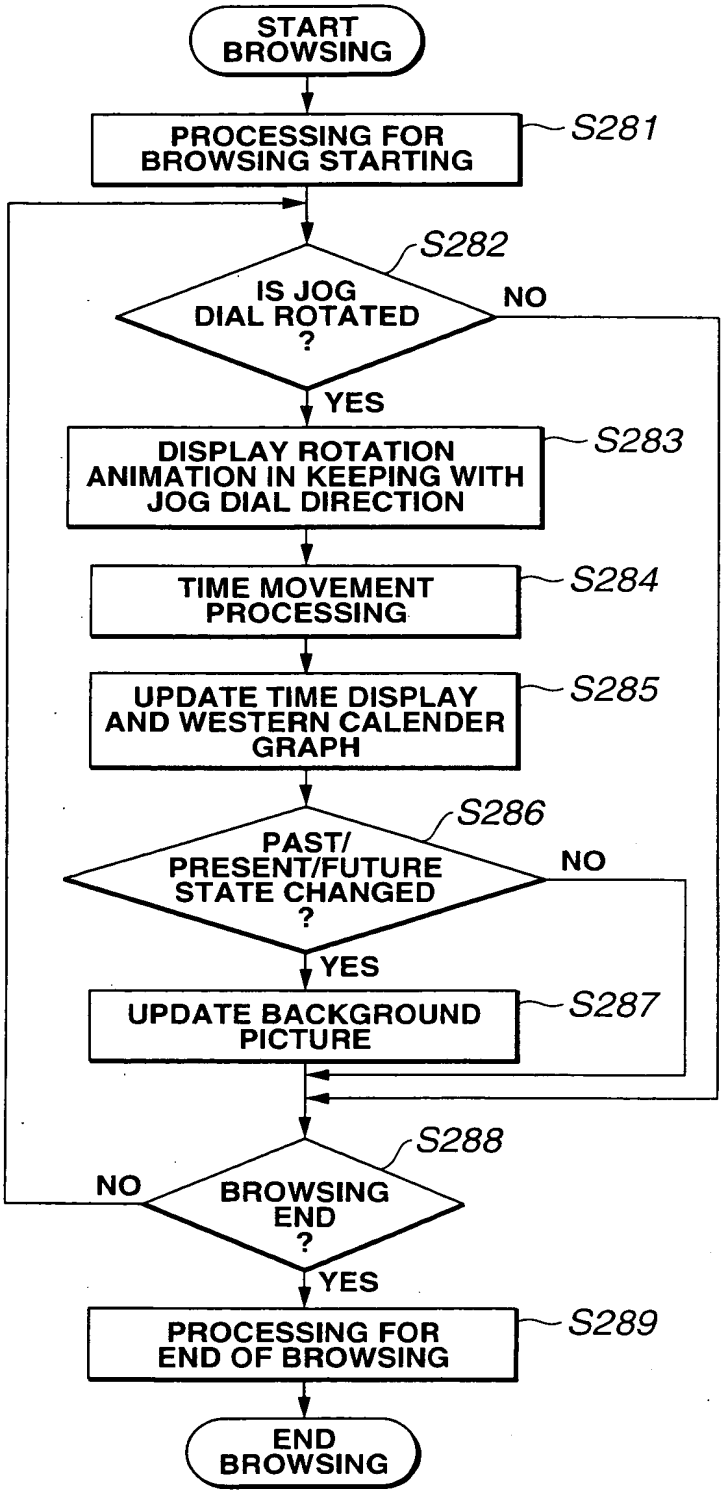

START BROWSING
PROCESSING FOR BROWSING STARTING
S281
S282
IS JOG DIAL ROTATED ?
NO
YES
DISPLAY ROTATION ANIMATION IN KEEPING WITH JOG DIAL DIRECTION
S283
TIME MOVEMENT PROCESSING
S284
UPDATE TIME DISPLAY AND WESTERN CALENDER GRAPH
S285
S286
PAST/ PRESENT/FUTURE STATE CHANGED ?
NO
YES
UPDATE BACKGROUND PICTURE
S287
S288
NO
BROWSING END ?
YES
PROCESSING FOR END OF BROWSING
S289
END BROWSING

FIG.84

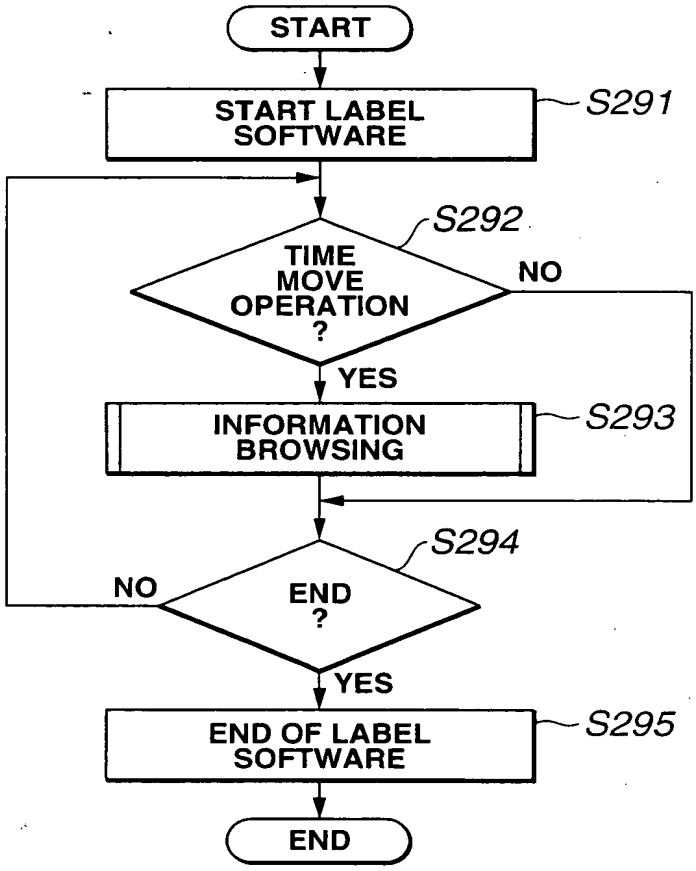

START
START LABEL SOFTWARE
S291
S292
TIME MOVE OPERATION ?
NO
YES
INFORMATION BROWSING
S293
S294
NO
END ?
YES
END OF LABEL SOFTWARE
S295
END

FIG.85

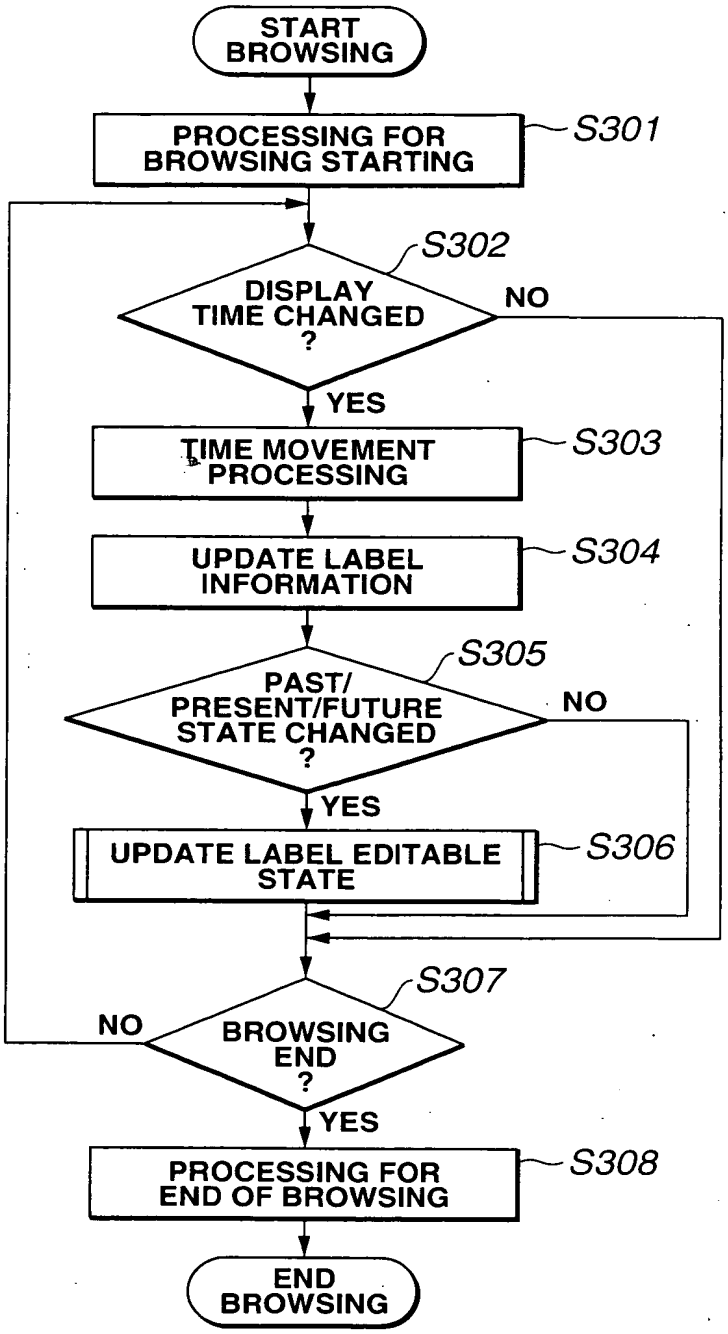

START BROWSING
PROCESSING FOR BROWSING STARTING
S301
S302
DISPLAY TIME CHANGED ?
NO
YES
TIME MOVEMENT PROCESSING
S303
UPDATE LABEL INFORMATION
S304
S305
PAST/ PRESENT/FUTURE STATE CHANGED ?
NO
YES
UPDATE LABEL EDITABLE STATE
S306
S307
NO
BROWSING END ?
YES
PROCESSING FOR END OF BROWSING
S308
END BROWSING

FIG.86

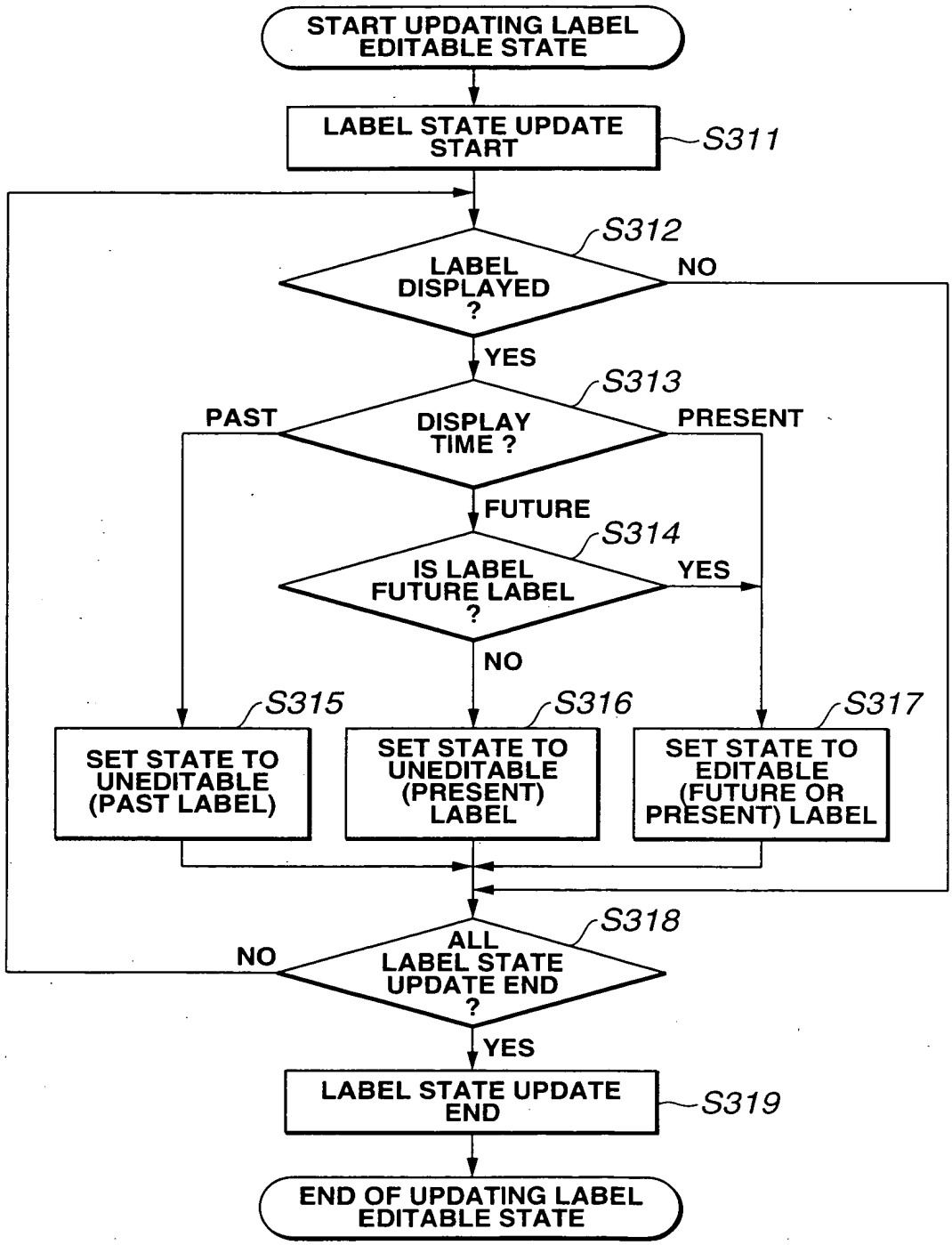

START UPDATING LABEL EDITABLE STATE
LABEL STATE UPDATE START
S311
S312
LABEL DISPLAYED ?
NO
YES
S313
PAST
DISPLAY TIME ?
PRESENT
FUTURE
S314
IS LABEL FUTURE LABEL ?
YES
NO
S315
S316
S317
SET STATE TO UNEDITABLE (PAST LABEL)
SET STATE TO UNEDITABLE (PRESENT) LABEL
SET STATE TO EDITABLE (FUTURE OR PRESENT) LABEL
S318
NO
ALL LABEL STATE UPDATE END ?
YES
LABEL STATE UPDATE END
S319
END OF UPDATING LABEL EDITABLE STATE

FIG.87

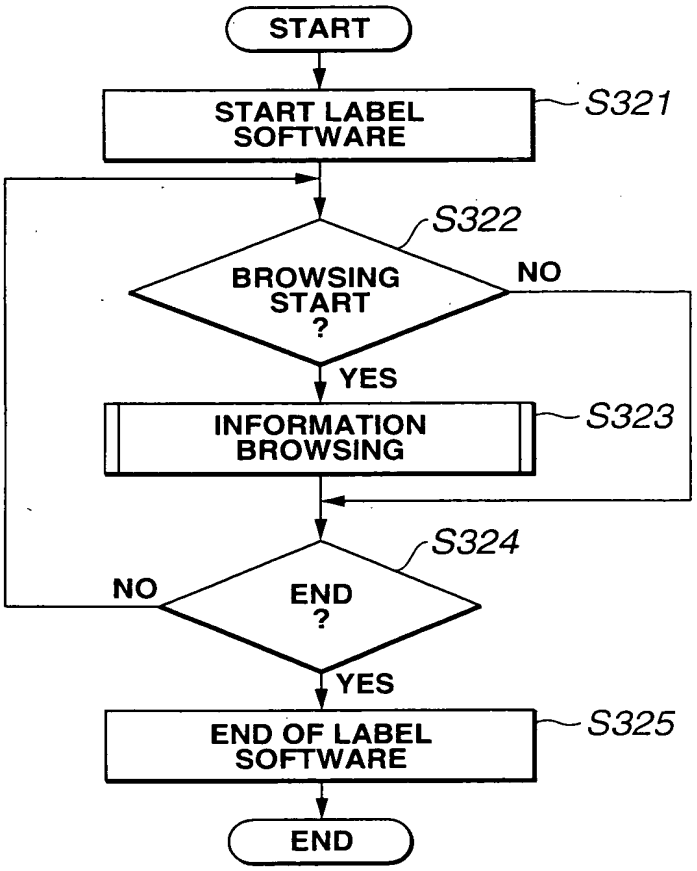

START
START LABEL SOFTWARE
S321
S322
BROWSING START ?
NO
YES
INFORMATION BROWSING
S323
S324
NO
END ?
YES
END OF LABEL SOFTWARE
S325
END

FIG.88

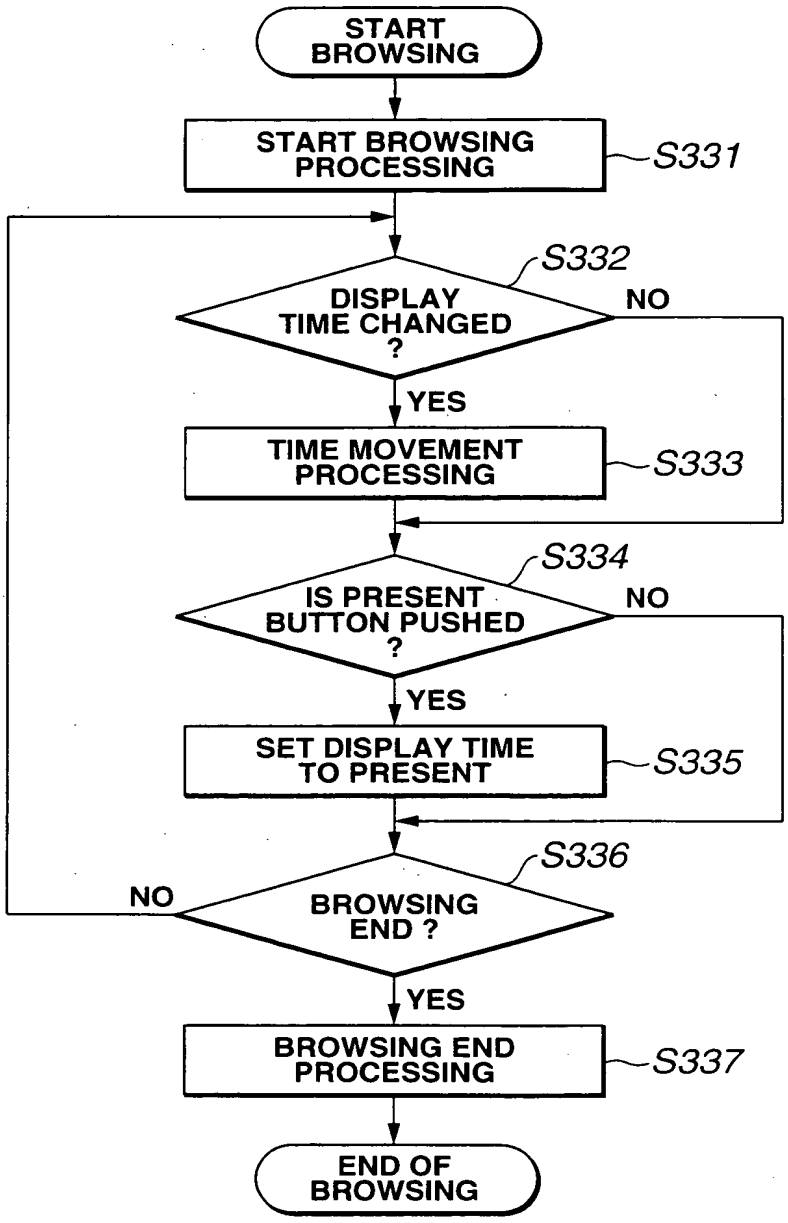

START BROWSING
START BROWSING PROCESSING
S331
S332
DISPLAY TIME CHANGED ?
NO
YES
TIME MOVEMENT PROCESSING
S333
S334
IS PRESENT BUTTON PUSHED ?
NO
YES
SET DISPLAY TIME TO PRESENT
S335
S336
NO
BROWSING END ?
YES
BROWSING END PROCESSING
S337
END OF BROWSING

FIG.89

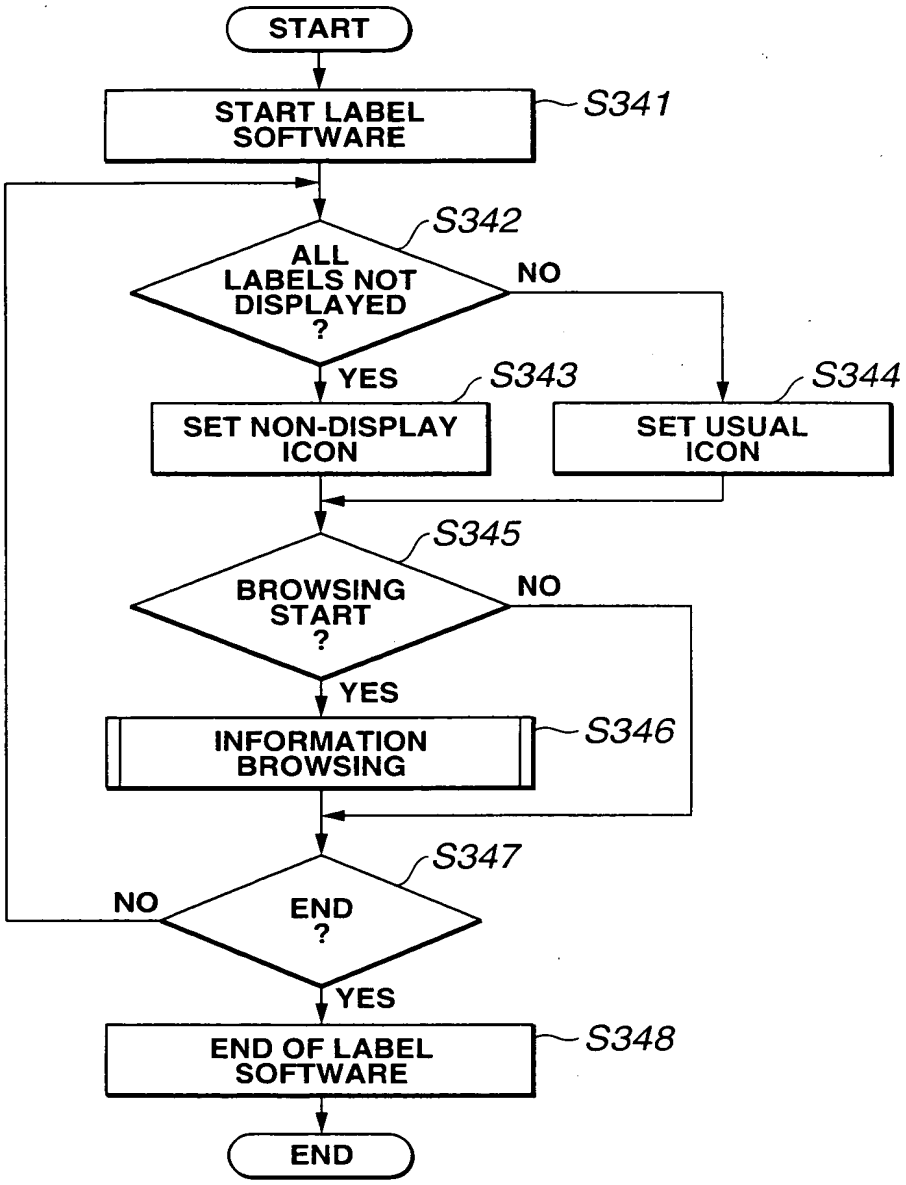

START
START LABEL SOFTWARE
S341
S342
ALL LABELS NOT DISPLAYED ?
NO
YES
S343
SET NON-DISPLAY ICON
S344
SET USUAL ICON
S345
BROWSING START ?
NO
YES
INFORMATION BROWSING
S346
S347
END ?
NO
YES
END OF LABEL SOFTWARE
S348
END

FIG.90

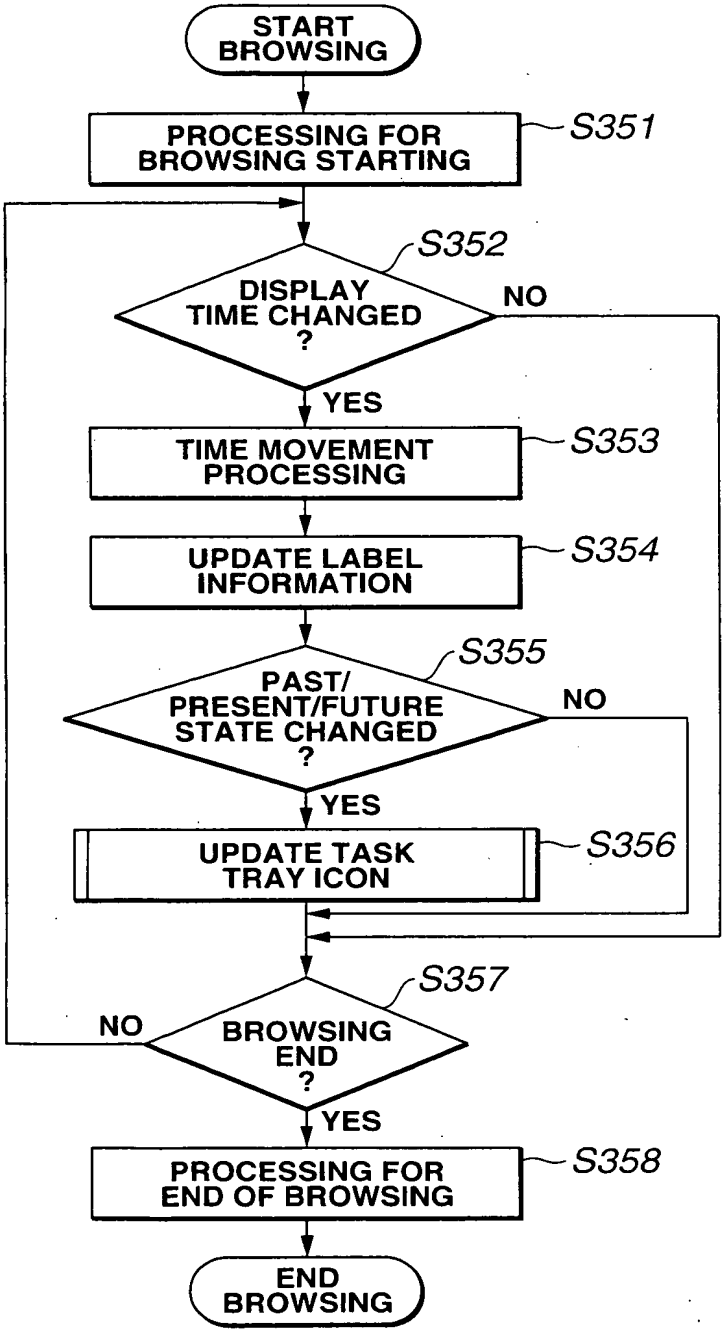

START BROWSING
PROCESSING FOR BROWSING STARTING
S351
S352
DISPLAY TIME CHANGED ?
NO
YES
TIME MOVEMENT PROCESSING
S353
UPDATE LABEL INFORMATION
S354
S355
PAST/ PRESENT/FUTURE STATE CHANGED ?
NO
YES
UPDATE TASK TRAY ICON
S356
S357
NO
BROWSING END ?
YES
PROCESSING FOR END OF BROWSING
S358
END BROWSING

FIG.91

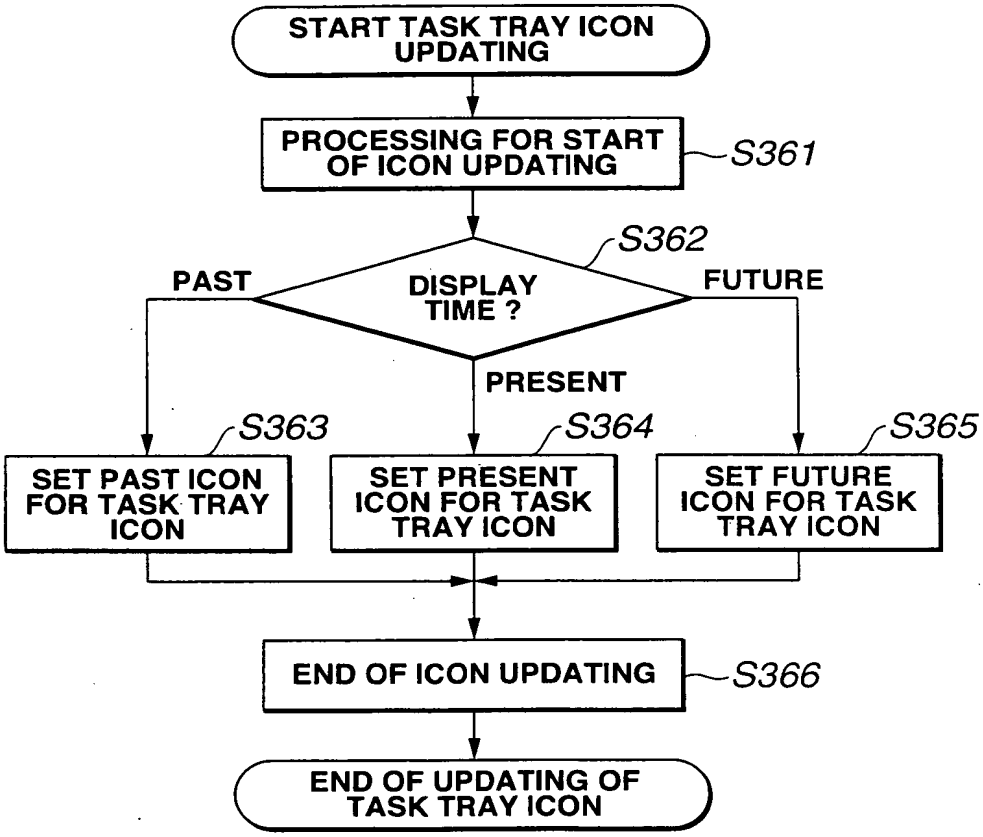

START TASK TRAY ICON UPDATING
PROCESSING FOR START OF ICON UPDATING
S361
S362
DISPLAY TIME ?
PAST
PRESENT
FUTURE
S363
S364
S365
SET PAST ICON FOR TASK TRAY ICON
SET PRESENT ICON FOR TASK TRAY ICON
SET FUTURE ICON FOR TASK TRAY ICON
END OF ICON UPDATING
S366
END OF UPDATING OF TASK TRAY ICON

FIG.92